

# Manufacturers Record

Reg. U. S. Pat. Office

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

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## Many Great Industries and Railroads to Spend Vast Sums in South

**T**HOUGH no one would be so foolish as to claim that general prosperity reigns throughout the country, there is an immense amount of construction planned for 1930 in the South and indeed elsewhere in the country which will inevitably give employment to a large number of laborers, increase the demand for machinery and equipment of every kind, and thus help to swell the volume of business of all kinds. To list merely some of the many outstanding enterprises reported during the last week or ten days is to give an indication of the greatness of what is being done and what is projected by concerns amply able to finance their undertakings. Here is such a list.

### *Power Companies Accelerate Expansion Programs to Keep Pace With Industrial and Business Developments*

Southwestern Gas & Electric Co., Shreveport, La., proposes expenditure of \$4,000,000 in 1930 for steam generating stations, gas distributing systems, ice plants and street railway facilities.

Kentucky Utilities Co., Louisville, has a \$2,000,000 improvement program mapped out for 1930.

Houston Lighting & Power Co. has undertaken a \$6,000,000 expansion program, to bring capacity of its Deepwater plant to 150,000 kilowatts.

Louisiana Power & Light Co., Algiers, is extending a \$1,000,000 power line to New Orleans to tie-in with power systems serving Louisiana, Mississippi and Arkansas.

Potomac Electric Power Co., Washington, will expend \$5,900,000, exclusive of a projected \$2,500,000 addition to its Benning plant.

Consolidated Gas Electric Light & Power Co., Baltimore, has a \$7,500,000 budget for 1930 providing for high pressure gas extensions costing \$1,000,000, electric distributing systems and new power station equipment to cost \$3,500,000, enlarging its district steam heating system at a cost of \$500,000, and expenditure of \$400,000 for rolling stock.

Georgia Power Co., Atlanta, and affiliated companies will expend \$28,000,000 for extensions in 1930, and plans have been mapped out not only to go ahead full speed but on a larger scale than ever. New power facilities will be provided in preparation for anticipated industrial growth in Georgia, as well as to provide service to communities not now served. The amount available for 1930 is the largest the company has expended in any single year of its history.

Alabama Power Co., Birmingham, will continue its program of expansion next year by expending over \$14,000,000 on new

developments, and in announcing the program the company expressed its feeling that the amount would be inadequate to take care of the operating and construction program demanded by the normal increase in power consumption.

West Texas Utilities Co., Abilene, plans the expenditure of \$5,000,000 in the state next year.

Potomac Edison Co., Hagerstown, Md., and affiliated companies will make extensions in 1930 costing over \$1,200,000.

Dallas Power & Light Co. will erect a new office building at a cost of \$2,000,000 and expend \$3,000,000 to care for the anticipated growth of business.

Appalachian Electric Power Co., Roanoke, proposes investing \$11,000,000 in Virginia and West Virginia and through subsidiaries in Kentucky and Tennessee, and upon receipt of authorization by the government will proceed with hydro-electric projects to cost \$17,000,000.

San Antonio Public Service Co. contemplates expending \$2,500,000 for necessary improvements in 1930.

The Columbia Gas & Electric Co., New York, proposes a natural gas pipe line from West Virginia fields to the Eastern Seaboard, estimated to involve expenditure of over \$40,000,000.

Arkansas Natural Gas Corp., Shreveport, La., will construct new plants, buy new pipe lines, erect compressor stations and carry on allied building operations in 1930 costing \$6,000,000.

North American Company, New York, has announced a \$100,000,000 construction budget, of which amount \$57,000,000 will be expended in 1930, compared with \$50,000,000 expended this year. In addition \$11,000,000 will be expended for maintenance. Provision is made for additions to the Cahokia plant near St. Louis, for the hydro-electric project on the Osage River, near Bagnell, Mo., estimated to cost \$30,000,000, and on improvements at numerous plants.

### *Increase in Telephone Facilities Index to Rapid Growth Under Way in the South*

Chesapeake & Potomac Telephone Co., will expend \$22,000,000 in 1930 for new construction projects in Maryland, District of Columbia, Virginia and West Virginia.

Standard Telephone Co. of Texas, main office Chicago, will improve its system in 1930 at a cost of \$2,000,000.

Central States Natural Gas Co. proposes to build a 950-mile pipe line system of 24-inch pipe (said to be the largest size pipe so far used for this purpose) extending from the Amarillo field in Texas to Chicago, and many localities en route will be served.

Southern Bell Telephone Co., Atlanta, plans expenditure of \$35,000,000 in Alabama, Florida, Georgia, Kentucky, Loui-

siana, Mississippi, North Carolina, South Carolina and Tennessee in 1930.

### **Millions for New Rail Lines, Shops and New Equipment to Insure Efficient Operation**

Ed Kennedy, Houston, Tex., is promoting construction of a 300-mile railroad from the Deepwater terminal at Corpus Christi to San Angelo.

Authority has been granted the South Plains and Santa Fe Railway, Lubbock, Tex., to extend its lines from Seagrave to Lovington, N. M., a distance of 46 miles.

Chicago, Rock Island & Pacific Railway Co., Chicago, has awarded contract for an 18-mile line between Nettleton and Polo, Mo.

Texas & Pacific Railway Co., proposes a \$900,000 bridge across the Trinity River at Dallas.

Missouri-Kansas-Texas Railroad Co., St. Louis, will erect a \$1,000,000 bridge across the Missouri River at Boonville. It recently announced plans for improvements to cost \$7,000,000.

The Pennsylvania Railroad has announced plans for improvements to cost \$300,000,000, of which amount \$95,000,000 will be expended next year for electrification of its lines, new equipment, etc.

Louisiana & Arkansas Railway Co., Shreveport, proposes expansions in 1930 costing \$1,000,000.

Over \$55,000,000 will be expended for improvements in 1930 by the Baltimore & Ohio Railroad.

The Chicago, Rock Island Lines have a \$50,000,000 budget for 1930 improvements.

### **Wide Diversity of Industrial and Engineering Projects Undertaken in Many Sections**

Contract has been awarded for a \$1,000,000 insulating board plant for the Armstrong-Newport Co., Pensacola, Fla.

Southwestern Air Terminals, Inc., Houston, has begun initial construction operations on a project ultimately to cost \$2,000,000.

Tampa, Fla., will begin work in March on a municipal airport for which \$750,000 bonds have been voted.

Tarrant County, Tex., which recently voted \$4,920,000 for roads and bridges will carry forward this construction in volume next year.

Tarrant County (Tex.) Water Improvement District No. 1 will shortly award contracts for the initial units of a \$6,500,000 drainage and irrigation project.

Texas & Pacific Railway Co. is expected to begin work at Fort Worth shortly on a new terminal freight warehouse and passenger station to cost \$8,000,000.

Gulf, Colorado & Santa Fe Railway will shortly complete plans for a \$2,000,000 passenger station and freight terminal at Fort Worth.

St. Louis-San Francisco Railway may expend \$1,800,000 for shop improvements at Springfield, Mo.

The National Advisory Committee for Aeronautics will let contracts in January for seaplane channel and wind tunnel at Langley Field, Va., estimated to cost \$1,000,000.

Trenton Mills, Inc., Trenton, Tenn., is considering plans for a steel and brick mill, machinery for which will be moved from a northern plant.

Cameron County Water Improvement District No. 14 has \$1,650,000 bonds available for an irrigation and drainage system.

Ellenboro Manufacturing Co., Forest City, N. C., will begin work in January on an 8000-spindle and 50-loom plant.

### **Big Volume of Road and Street Work Assured for 1930 as Programs Are Speeded Up**

Through bond issues recently voted and millions of dollars assured through license revenues and the gasoline tax road and bridge work will be let to contract in 1930 in the South-

ern states in great volume. In addition numerous important lettings have been announced for December so that awards may be made and work started early in the new year. Missouri in 1930 proposes to build 365 miles of graded earth roads, 486 miles of gravel surfacing and 457 miles of concrete pavement to cost \$30,000,000. Arkansas appropriations for 1930 include \$18,000,000 for new construction, \$2,500,000 for toll bridges, \$3,250,000 for maintenance, \$7,500,000 to retire road improvement district bonds and \$1,800,000 turnback to counties for improving local roads. South Carolina proposes to expend \$20,000,000 for state roads and bridges, \$3,000,000 for maintenance and \$500,000 for department operations next year. West Virginia is prepared to expend on state roads, construction and maintenance in 1930 a total of nearly \$17,000,000. Virginia recently allocated \$13,000,000 for road work in the next fiscal year. North Carolina's road program next year calls for expenditure of \$11,000,000. In Maryland \$13,000,000 will be available for state road work in 1930. Contracts let by Louisiana in the last six months of 1929 for state roads total 350 miles and it is estimated that 400 additional miles will be contracted for in 1930 involving total expenditure of \$17,000,000, and in addition there will be available \$3,500,000 for maintenance, \$3,500,000 from direct taxes and \$1,000,000 federal aid. Expenditures for state roads in Tennessee next year will exceed \$20,000,000. Florida's state road budget for 1930 calls for an outlay of \$13,500,000. Bids will be received in January for \$11,667,000 Kentucky bridge bonds. Oklahoma state road work next year will necessitate the expenditure of \$12,000,000. About \$35,000,000 will be spent for state road work and maintenance next year in Texas. Georgia will spend \$16,500,000 on state roads in 1930.

Tarrant County, Texas, recently voted a \$4,900,000 bond issue for roads and bridges. Mitchell County, Texas, proposes expending \$750,000 for county roads. Port Arthur, Texas, recently voted \$3,305,000 bonds for municipal improvements including \$2,000,000 for a seawall and \$580,000 for paving. Limestone County, Texas, is considering plans for a \$1,000,000 road bond issue. Houston, Texas, recently announced plans for paving projects to cost \$4,500,000. Nueces County, Texas, recently voted \$2,500,000 for roads. Brazoria County, Texas, contemplated \$4,500,000 for through highways. Dallas, Texas, paving work in 1930 will cost over \$500,000. Austin, Texas, paving projects mapped out call for an outlay of \$600,000. New roads planned in Presidio County, Texas, will cost \$600,000. St. Louis, Mo., proposes river front improvements including traffic ways, scenic drives, parking areas, airport and recreational facilities to cost over \$80,000,000. Baltimore will push work on grade elimination projects costing \$10,000,000, and work on similar projects costing \$4,000,000. St. Louis County, Mo., is pushing work on a \$10,000,000 highway program.

### **Costly Building Projects Under Way and Proposed, Both Privately and Publicly Financed**

A few outstanding building projects proposed or recently let to contract in the Southern states include the following:

Pretoria Realty Co., St. Louis, proposes a \$2,000,000 hotel.

Hinds County, Miss., will award contracts shortly for an \$850,000 courthouse.

A \$1,000,000 Masonic temple is planned for Fort Worth, Texas.

The Scottish Rite Holding Co., Baltimore, will shortly award contract for a \$1,000,000 Shrine temple.

Contracts have been awarded for a \$5000 hotel at Florence, S. C.

Oklahoma City proposes expending \$2,150,000 for new schools.

Tulsa, Okla., proposes a \$7,658,000 bond issue for municipal



building projects, including a hospital, convention hall and auditorium, city court building, police substations, central library, addition to the municipal building, etc.

Bids will shortly be received for the \$5,000,000 main unit of the State Capitol at Charleston, W. Va.

Hilton Hotel Co., Dallas, Texas, plans erecting a \$1,000,000 structure at Mobile, Ala.

Bids will be received January 6 for erecting a \$3,000,000 post office at Baltimore.

A National Archives Building is planned for Washington to cost \$2,000,000.

Plans are being completed for new buildings at Fort Benning, Ga., to cost \$600,000.

Bids will be received January 14 by the U. S. Veterans' Bureau, Washington, for a \$1,500,000 hospital to be erected at Lexington, Ky.

Contracts have been awarded for a \$650,000 building for the Young Men's Hebrew Association, Baltimore.

Burgher-Phillips Dry Goods Co., Birmingham, is considering erection of a \$500,000 store.

McKeever & Ross, Inc., Washington, proposes a group of apartment structures on Wisconsin avenue to involve an expenditure of several millions of dollars.

### SENATOR JOSEPH R. GRUNDY

OF ALL the men who have appeared before the Senatorial Committee on tariff lobbying, Joseph R. Grundy stands out preeminently as the one man who did not hesitate to express his views, did not hesitate to answer back in a very proper and emphatic way to some of the questions put by the committee in an attempt to discredit him and his work.

Regardless of the criticisms against Mr. Vare, it was in our opinion absolutely unconstitutional for the Senate to reject his election. In doing that the Senate took a stand which is likely in the future to be of very serious disadvantage to this country. It is not the province of the Senate to say to any state who shall be its representative in the Senate by refusing to seat the representative elected, or one appointed by the Governor. Once grant the right to the Senate to take that stand and all constitutional requirements are broken down. Fortunately, however, in this case the Senate was practically forced by the conditions which it faced to accept Mr. Grundy despite some of the very silly efforts made to prevent his being seated.

The fact that the vast manufacturing interests of Pennsylvania have for years shown their confidence in Mr. Grundy, and that he is a man of convictions and ready to stand for his convictions regardless of the inquisitorial senatorial methods that prevailed when he was on the stand, makes his membership in the Senate of extreme interest to the country. He will stand for a protective tariff. He has proven his belief in a tariff. He has proven that he has backbone and the moral courage to face the inquisitors and beat them at their own game.

Mr. Grundy is a Quaker, standing very high in all the business circles of Pennsylvania. Out of the refusal to accept Mr. Vare the Senate has been compelled by the logic of events to accept a man of probably far greater ability than Mr. Vare, one who has honesty of conviction and the courage to express his convictions and to meet every issue that may be brought up in the Senate. A few more men of that kind are very badly needed in the United States Senate.

Every believer in a protective tariff in this country—and they are numbered by the millions, North, South, East and West—will recognize that, in the naming of Senator Grundy, the Governor of Pennsylvania has rendered an invaluable service to the tariff interests of the entire country.

### ENCOURAGEMENT FOR THE CONSTRUCTION INDUSTRY

A GREATER feeling of optimism should prevail in the building and construction industries than has been experienced for months past. From many directions come encouraging signs that money for expansion programs and new construction projects will be more easily obtained, because of the easing up of the credit situation. Money that has hitherto flowed into speculative channels will now be diverted to more substantial purposes. There are further signs that the bond market will again come into its own and this in itself is no small factor in enlarging construction opportunities, since it will enable public bond issues, as well as private issues, to be floated and the necessary capital secured to carry on building operations.

With every new construction project undertaken there will come an added stimulus to business of every kind. Greater employment will be provided, resulting in increased sales of commodities. Recent announcements of public utilities, railroads and other industrial groups as to their expansion programs have had a marked psychological effect. It is true that much of the enumerated expenditure would have taken place in the normal course of carrying on the nation's business, but with every public utterance of executives as to their proposed plans for the coming months greater confidence has been gained by the public at large.

Further strengthening of the morale of the business world was afforded by the announcement by the United States Steel Corporation that its unfilled orders showed an increase of 38,783 tons during November, bringing the total unfilled orders of that company up to 4,125,345 tons as of November 30. Furthermore, the announcement stated that it is the third successive month in which increases in unfilled orders have been reported and carries the total of the corporation's business to the highest level since last June, although the mills at that time were operating around 100 per cent capacity, as contrasted with about 70 per cent recently. All of this is very encouraging, especially when a decline in orders was forecast before the report was made public.

As a result of the national business survey conferences called by President Hoover, officials of the National Association of Real Estate Boards see an early improvement in credit and money available for construction as well as real estate developments. "Construction and maintenance industries, employing, as they do, one-fourth of the labor in the United States, hold the key to the whole present business situation," declares Herbert U. Nelson, executive secretary of the realtors association. He points out that "the speculative period is over and we are now entering a period of lower interest rates and low interest rates will make building and construction go forward."

At the December 5 conference President Hoover emphasized that continuity and expansion of construction and maintenance work throughout the country should make up any lack in employment which arises in other directions and offset any temporary depression which might come. Covering this point, President Hoover said:

"I believe that with the great back logs which are already assured by the public service institutions and the governmental works you will be able to build up the construction and maintenance activities for 1930 to a higher level than that of 1929, and that is what we require."

Substantial evidence was pointed to at the conference showing that representatives of industries, utilities, business organizations and governmental agencies are one-minded in working toward increasing activity in the construction field.

## Great Britain and Canada Disturbed by the Hip-Pocket Flask and Drinking by Young People

THE Baltimore Sun in a recent issue had a special article in its magazine section giving a rather doleful picture of conditions of the youth of Great Britain, headed "Flaming Youth Tries Britain's Patience." Opening paragraphs of this article contained the following statements:

"The Bright Young People used to be the spoiled darlings of society in post-war England. They are now its betes noires.

"The tale of their fall is also the tale of the development of disquieting symptoms in the younger generation, which are puzzling the sociologists, worrying politicians, driving bishops to despair and turning the main hope of the race leaders from the young manhood to the boyhood of the nation.

"It is about four years since England awoke to the advent of a sort of flaming youth set led by a few high-spirited members of Mayfair's young, rich, smart crowd. They danced all night, slept most of the day and exhibited extraordinary ingenuity in devising new sensations. Feeling pretty dull after the war and the collapse of the immediate post-war boom, England indulgently christened them the Bright Young People.

"The Bright Young People broke through social conventions and even through class barriers, inviting in fashionable young actors, actresses and cabaret entertainers, the latest poet or painter, any one who could aid it to get a bigger kick out of its feverish life.

"They invented midnight treasure hunting, organized amateur cabarets to cheer up balls and popularized the cocktail. They discovered the charms of motoring in the hour of dewy dawn from night clubs and parties in town to the sylvan upper reaches of the Thames, and having a noisy bathing party—a pleasure enterprise which no one had thought of before. At supper dances in stately mansions they rejected caviare and champagne and called for kippers and beer, and sausages-and-mashed and coffee; and society, humoring them, followed suit."

The facts quoted are only indicative of the very desperate conditions indicated in the remainder of the article. One closing statement is typical of all:

"In all the manifestations of the B. Y. P. the female predominates. It is she who has made the cocktail the staple drink of the crowd."

Alberta Province of Canada, so a friend wrote us in the summer, is greatly disturbed at the development of the hip-pocket flask and drinking by the young people. Alberta, it must be remembered, some years ago thought prohibition was a failure and turned to liquor selling by the Government. The story of the effect this has had toward increasing the drunkenness of the people of Alberta is given in this week's issue.

The September issue of The Searchlight, published at Edmonton, Alberta, presents some distressing conditions which more than sustain the views expressed by Dr. Jones in the article published in the MANUFACTURERS RECORD this week. The Searchlight says:

"The legal sale of liquor for beverage purposes from Government vendor stores, and beer by the glass or open bottles in licensed beer rooms in Alberta, is making more people mourn than any other, or all other, Government and commercial activities carried on in the province. Through their Government, the people of Alberta are inhuman to the nth degree to the poor fellow who permits himself to acquire the appetite and habit of beverage liquors."

The Searchlight gives details in regard to the increasing convictions in the courts of various cities of Alberta and says that the total commitments for the two Alberta jails in 1923, the last year under Prohibition, was 1,111 and in 1928 the total was 2,413. It adds: "That drunkenness is increasing is admitted by all fair-minded people." \* \* \*

"On April 12, this year, the public sale of beverage liquors, through Government vendor stores and beer rooms, has been

operating for five years. During that time Alberta's jail population has steadily increased. Drinking has increased, and drunkenness is now quite common. Story after story of responsible men, heads of families, losing their positions because of the liquor habit; hundreds of men out of employment because employers of labor today do not want a man who drinks; little children going without clothes and food." \* \* \*

"Crime and poverty follows immense expenditure of money for that which steals away brains and dissipates health." \* \* \*

"Is it any wonder that Alberta jails are full, and more space required; that rescue homes are enlarging and that police courts are cluttered with the victims of the liquor traffic?"

Much more of the same kind appears in The Searchlight as showing the effect of the Government control of the liquor business in Alberta.

Taken in connection with the desperate conditions reported among the young people of Great Britain by the writer in the Baltimore Sun, one gets an idea of what is going on in countries where Prohibition does not prevail. The liquor interests, and thoughtless people moved by their own desire for drink or by the propaganda of the liquor people, have been advancing the claim that drinking on the part of young people of this country is due to our Prohibition laws. How will they explain the increase of drinking and the use of the hip-pocket flask so prevalent in England and in Alberta Province of Canada?

These people are overlooking some facts. Superficially, one might feel like the disappointed politician who, long prior to the Civil War, when a certain election in Maine resulted contrary to his views, sent this well-remembered telegram: "Maine has gone hell-bent for Governor Kent." Superficially, one might be tempted to think that thus the world is going in the increased drinking of young people and the wild dissipation prevailing throughout all the so-called civilized countries of the world. But there is another side to the case.

There are millions of young people who are just as clean of life, just as free from the drinking habit as were ever the boys and girls of olden days. Superficially, it looks sometimes as though the world is "hell-bent," but we have optimism enough to believe that the working out of the plans of the Almighty will be carried forward by the strong, sturdy, moral young men and women of the present age who will soon be taking the place of the older generation passing away. It will not be the frivolous, drinking and ne'er-do-well crowd of spendthrifts who will rule the destiny of this country, or Britain, or Canada; but sober, thoughtful men and women who are today standing four-square to every wind that blows against the temptations of the hour.

### THE FARM BOARD'S HARD WORK

C. B. DENMAN, member of the Federal Farm Board, in a letter to the MANUFACTURERS RECORD says:

"I have read with a good deal of interest your front-page story and wish to commend you for the splendid spirit expressed therein. I cannot agree that the farmers work any harder than other folks, because I spent 48 years at that kind of work and the hardest job I have ever tackled has been on the Federal Farm Board. I do agree that there is not an equal opportunity with that of labor and industry. The farmer is not asking for any more than to have that condition restored to or brought to him. Such articles as yours should help a lot."



## ANNUAL HIGHWAY REVIEW NUMBER

**S**UBJECTS to be discussed in the Annual Highway Review Number of the MANUFACTURERS RECORD to be published January 9, preceding the annual road show and convention of the American Road Builders' Association, cover a wide field of activities. The topics have been selected only after a thorough investigation of present and indicated developments in road building and highway transportation. Road building officials, manufacturers of machinery and materials, widely known engineers, students of highway economics and others prominent in road building circles have a part in the preparation of material for the coming issue. The need for greatly increased expenditures for new construction and maintenance is the dominating theme in the feature articles, which subject has been forcefully presented over a period of years in regular issues of this paper. The production of motor vehicles has long been at a rate exceeding the increase in mileage of adequate hard surfaced highways with the result that traffic congestion is now general throughout the country, exacting a heavy annual toll in life and property as well as materially reducing the effectiveness of motor vehicles as a transportation medium in the saving of time. Last year's number stressed the importance of promptly curbing the diversion of the gasoline tax to other than road building purposes, whereupon men prominent in highway construction activities, in the automotive industry and national associations took up the fight to vigorously contend for exclusive utilization of gasoline tax revenues for road work.

These annual review numbers are distributed world-wide, particularly so in Central and South American countries, among government officials, engineers and contractors. One South American country, after a study by the president of that republic of a copy of our Annual Highway Review Number—featuring the benefits that follow the building of improved highways and subsequent expansion of motor transportation—appropriated its first funds for roads and now has under way an extensive improvement program. Thus is created a knowledge of American methods of road construction and maintenance with a resulting demand for machinery and materials produced here, as well as stimulating opportunities for service on the part of engineers and contractors trained in this country.

Some of the subjects to be discussed in the January 9 issue are briefly summarized herewith:

**Low Cost Improved Roads**—The development of low-cost, all-weather, year-round highway surfaces claims the attention of highway builders throughout the country, for there is already urgent and rapidly increasing need for low cost methods of surfacing hundreds of thousands of miles of highways, the traffic on which requires smooth, durable roadways, but is not dense enough to justify high type paving.

**Economics of the Automobile Industry**—The diversified developments that follow in the wake of motor transportation expansion exert a tremendous influence on modern business activities. In addition to the demand for a multitude of raw materials and finished products for cars, trucks and buses countless auxiliary activities have sprung up. Only a few years ago little attention was given service station facilities; today \$500,000 service units replete with every device for efficiently servicing motor cars abound. Parking garages have been erected in our towns and cities; big sums have been expended for roadside stands, tourists camps, etc.; roadside parks and camps are being established; in-built beauty is a prime requisite of the modern highway.

**Labor-saving Tools Cut Highway Building Costs**—Manufacturers of road-building machinery, ever alert to the need for keeping construction costs down and speeding up operations, have produced power tools to supplant hand labor, so that despite higher costs for both labor and materials road building costs have been kept at fair levels and carrying forward huge programs has been facilitated.

**Federal Regulation of Inter-State Motor Carriers**—No

agency of public service has so attracted public attention and patronage, nor engaged the attention of state regulatory officials and raised as many legal problems in so short a space of time as has the motor common carrier. The matter of regulation in the public interest is one of prime importance.

**Progress In Highway Research**—The wide ramifications of activities in the interest of speeding up motor vehicle traffic, in facilitating speed with safety, in building more durable highways, in providing low type roads for secondary systems—these and numerous other problems are now the basis for extensive research.

**Inadequate Roads Impede Highway Transport**—Of the country's 3,000,000 miles of highways only 300,000 miles have been given appreciable attention, and less than 100,000 miles can be called paved to the point where car operating expenses and road upkeep are reduced to a minimum.

**Summarization Of Road Work In The South**—Always a prominent feature of each annual number this subject assumes added significance this year because of enlarged programs for 1930.

## A FLORIDA GIRL WINS IN HEALTH CONTEST

**T**HERE is held in Chicago an annual health contest which undertakes to pick out the healthiest boy and girl in the country so far as it is possible to make such an investigation. For two years in succession Mississippi girls won the prize for the healthiest in the United States, and now that honor has fallen to a Florida girl, Miss Florence Smock of Eustis. The Associated Press dispatch says:

"The 'healthiest girl' swims, dances and occasionally has dates, but 9 o'clock is bedtime every night, and 7 A. M. is getting up time. She uses no rouge nor lipstick, but has rosy cheeks. She wants to be a physical education teacher. She is a senior lifesaver in the Red Cross, and has been in the Four-H Club two and a half years, specializing in home improvement, nutrition and health."

Good for Florence, and good for Florida for having produced a young woman who not only wins the honor of being the healthiest, but who has evidently avoided the flapper style of conduct, for she goes to bed early, gets up early, uses no rouge or lipstick, and we bet \$17,000,000 (if not required to pay it) against a penny that she does not smoke health-destroying cigarettes.

## COMMENDATION OF CHAIN STORE ARTICLE

**H**UGO HOYER, president, and F. A. Dick, secretary-manager, of the Retail Merchants Association of Shreveport, La., immediately upon receipt of the MANUFACTURERS RECORD containing an article outlining some of the evil influences of chain stores, wired as follows:

"The independent retailers of the United States are under everlasting obligation to you and your able publication for the presentation of Mr. Philip Lieber's paper on the subject of chain stores. We are wiring you to say that we are proud of Mr. Lieber and of you, too. Would we had more like you that have backbone enough to assert their opinions."

Luther Ellison, secretary of the Chamber of Commerce of Camden, Ark., writing on the same subject, said:

"Permit us to thank you most cordially for publication of the article 'National Chain Systems.'"

"We have read this article with much interest and hope every business man in the country will do the same. Unless some action is taken, curbing the chain stores or at least prevailing upon them to do their part in the industrial and civic development in each community in which they operate, it will not be long until they thoroughly monopolize business conditions, especially in the smaller communities, and our people at large will be at their mercy as to prices and general conditions."

# Labor Conditions in Southern Cotton Mills

From an Address Delivered on December 12 Before the Faculty and Students of North Carolina College of Agriculture and Engineering, Raleigh

By B. B. GOSSETT, President, Chadwick-Hoskins Co., Charlotte, N. C., and chairman, Division of Commerce and Industry, Department of Conservation and Development, State of North Carolina.

**D**ISCUSSING at this time textile conditions in the South, and especially in North Carolina, it is essential that we give recognition at the very outset to the distressing but commonly-accepted fact that since the World War the textile industry of the entire world has been painfully depressed. No anomaly of the many in our own country's unprecedented prosperity within the last ten years stands out so boldly as the failure of textiles to rise to the general level of that stimulation which other major industries have attained. We have witnessed the strange spectacle of various other lines, some of them mere infants of industries employing relatively few laborers and with limited capital investments rushing to peak production, enjoying increasing consumer-demands, making tremendous profits and paying proportionately good wages while textiles, among the ancient of the industries, have languished in activity.

The depression experienced in the textile industry has been confined to no particular country nor particular territory within any country. The situation in England, the birthplace of cotton manufacturing, has been intensely acute within the decade. A graphic picture of the decline of the industry in Lancashire has been presented in a recent book "Lancashire Under the Hammer" in which the author shows that since 1921 a majority of the five million people wholly dependent upon that industry in this great stronghold of cotton manufacturing have had little more than thirty hours of work per week, its great foreign trade has dwindled by nearly 3,000 million yards a year, a third of its machinery has remained idle and now a large proportion of the industry "hovers on the threshold of the bankruptcy courts." In 1927 alone, this book informs us, 50 spinning companies, 33 manufacturers, 11 spinning and manufacturing firms and 79 merchants in the Lancashire area are known to have gone into liquidation or to have come to forced terms with their creditors.

As to what has happened in New England, long commanding the prestige and name of being the greatest cotton manufacturing area of the United States, statisticians in that area report that more than 3,500,000 spindles have been dismantled. It is a matter of common knowledge that due to the severity of

the depression in that section, aided by restrictive and repressive legislation and further hampered by long continued strikes, there has been a general exodus of this industry into the South. Perhaps, however, it is not going beyond the question to declare that the enactment of the 48-hour law in Massachusetts and the strike of 1922 in the textile industry of New England was the blow from which the manufacturers of that section as well as the operatives never recovered.

Under these circumstances and stern facts, it is well to keep in mind that what has happened to the textile industry in Great Britain and in New England can happen to the South. Whatever our physical, social, climatic and economic points of superiority may be, the same processes and practices that have wrought havoc in other areas of this industry can fall upon us. The leadership in this industry is now definitely lodged with us. Wise men still profit from the experiences of others.

In reference to labor conditions in Southern mills and in those of our own state, it is my purpose to enter into a discussion with frankness and without reservation. It is a matter which at this time especially calls for level-headed attitudes and for a statement of the facts. Largely as a result of the slanders of the communist agitators and their sympathizers, much of the country has been flooded with information tending to show that the wage scale of the cotton mill operative in the South is at a brutally low level and that working and living conditions are almost intolerable. The facts warrant no such contention. No one who is conversant with the situation would contend that living conditions and working conditions in all of the mills are ideal or what they might be. Improvement in some plants could and should be made. By and large, however, the mills of the South, and particularly in North Carolina, are providing their operatives with excellent homes and surroundings.

Evidently many of our Senators have been greatly misinformed about conditions as to this matter. The demand for an investigation of Southern cotton mills by a Senate Committee has become insistent. Well meaning but misinformed people have offered their resolutions in urging such an investigation. As far as I am concerned I feel that the industry

as a whole has nothing of which to be ashamed. If an investigation by the Federal Government should be made so extensive as to include conditions in the industry in other sections of the country as well as the South, including the garment workers in the great cities, if it were made so searching as to bring out clearly to the public the generally unprofitable character of cotton manufacturing, the cause and possible remedies, there is no reason that Southern mills should not welcome it. We would exercise our rights, of course, to demand that such a Senatorial investigation be prompted by unprejudiced motives, designed to arrive only at the facts and not promoted by the caprices of professional agitators.

Naturally the question of whether such an investigation would rise to this high level is in the minds of Southern manufacturers when men of the type of Senator Wheeler of Montana continue to give statements to the public denouncing living and working conditions in the South upon information evidently furnished by those whose motives are malignant. A few days ago North Carolina newspapers carried a statement from Senator Wheeler assailing conditions and low wages in Southern textile plants, quoting a weekly wage in the cotton mills of the five dominantly textile states of the South greatly at variance with the actual and official average full time weekly earnings of cotton mill operatives in the South as contained in Bulletin No. 492 of the Bureau of Labor Statistics of the United States Department of Labor. These official Government figures show that for the year 1928, instead of the wage alleged to prevail by Senator Wheeler, the following to have been the average full time weekly earnings in these states: Alabama \$13.42; Georgia \$14.50; North Carolina \$16.46; South Carolina \$14.30 and Virginia \$17.41. The average for all cotton manufacturing states was \$17.30, including New England.

If Senator Wheeler had consulted this document of the Government he would have also ascertained that in the past few years the trend of wages in Southern mills has been upward while in most of the New England states the trend has been generally downward. He would also have noted that there has been a slight increase in working hours in some of the New England states while there has been a corresponding slight decrease



in many of the Southern states. Actually, in most instances, wages in effect at this time are considerably more than double the wage scales in effect in 1913. According to the statistics published by the United States Bureau of Labor, American textile workers receive in wages more than twice as much as similar workers receive in England, two and one half times as much as in Germany, four times as much as in France, five times as much as in Japan, six times as much as in Italy and fifteen times as much as in China.

In a series of published statements the Cotton Manufacturers Association of South Carolina recently showed that the above comparisons represented only the money wage, rather than the buying equivalent of this wage in the countries where they prevail. The purchasing power of the money wage is of course the genuine standard of earning. It has been clearly established that the cost of living in the industrial sections of the South is much less than in the industrial sections of the East.

Continuing this comparison of wages and living conditions in the South as against New England, the earnings of the employees of a large cotton mill company in Western North Carolina were recently contrasted with the earnings of employees in a large cotton mill company in Massachusetts and another in New Hampshire. The average money wage earned by the employees of the North Carolina company amounted to approximately \$19 per week, basis full time 55 hours, while in Massachusetts the average was a little more than \$21 per week, basis full time 48 hours, and in New Hampshire slightly in excess of \$22 per week, basis full time 54 hours. This average covered all employees from those performing the most menial service, such as scrubbers, to the most skilled workers, such as weavers and skilled machinists. The apparent difference is about 15 per cent in favor of New England. But when it is considered that comfortable homes are furnished the operative in North Carolina at an average monthly rental of about \$5 as compared with a monthly rental of \$20 to \$30 in New England, this differential of 15 per cent in favor of New England virtually disappears. As a matter of fact, taking into account that many North Carolina mills furnish their employees with free lights and water and provide them with fuel at cost, the advantage is really in favor of the North Carolina operative. It should also be pointed out that a majority of the operatives homes in the Southern mill villages are provided with ample grounds for gardens and flowers, many of them with recreational facilities and with standardized schools. While North Carolina mills pay a somewhat higher wage than those

in states further to the South, the wage tendency in the entire Southern cotton manufacturing area is uniformly upward.

Another factor which cannot be left out of this consideration is that the rate of pay in any occupation depends to a great extent on the time required to learn it. The craftsmen, such as stone masons, cabinet and watch makers to say nothing of the professions require years of apprenticeship and preparation. There is no such requirement of workers in the cotton textile industry. No lengthy period of training is demanded. Individuals may be totally unfamiliar with the details of the work they come to do when they enter a cotton mill and, yet, in a relatively short time, they become sufficiently skilled to perform almost any kind of the industry's work. There is no industry or business in the world where proficiency can be acquired in a shorter time than in cotton textiles. It is, therefore, logical that the pay of textile operatives should be somewhat lower than that received by workers whose occupations demand longer periods of training.

Yet another vital factor in the cotton mill wage scale arises from an appreciation of the former economic status of these employees. Inasmuch as virtually all textile labor originates from the farms any fair appraisal of the wage level in cotton mills must essentially take into account the miserably low income from which these tenant farmers are fleeing. They are overrunning the mills for the obvious reason that the change is decidedly for their economic self-interest. Wages are higher, houses are better, hours are shorter, comforts and conveniences of living more abundant and general conditions vastly better than prevail on the farms.

According to a recent survey by the Bureau of Agricultural Economics, United States Department of Agriculture, there are approximately 100,000 white families on cotton farms in the upper Piedmont section of the Carolinas, Georgia and Alabama whose average cash income per family living was \$336 a year. It was estimated that one fifth of all families surveyed lived in two or three rooms and almost all of them without the most ordinary of modern conveniences. Taking a family of two workers as a basis of comparison, a group of this size could move from the farm into the average Southern mill village where much better living conditions are provided and earn from the beginning approximately \$1,000 a year in cash with the prospect of a gradual increase to \$2,000 or more per year as such workers become more proficient.

This exodus from the farm to the mill, while in many respects desirable, has complicated the problems of the industry

for the employees already there and those offering themselves for new employment. It has furnished industry with inexperienced but fairly ambitious labor. It has given the farmer moving to the city easier, more regular and more gainful employment. It has decreased the chances he has been accustomed to take with weather, boll weevil and prices. It has given the farmer remaining in the fields less competition and more mouths to feed. The serious phase of this movement is that it has taken place faster than the industries have been able to assimilate the supply. For the manufacturers it has meant a heavy turnover in worker-supply and the consequent loss through confusion incident to the adjustment of new employees. Unsatisfactory as the condition has been it would have been tragically worse except that new industries have been rapidly transferring to North Carolina or organized within the state, and had it not been further that the state Government and its subdivisions have been engaged in permanent improvement programs involving capital outlay of half a billion dollars.

What to do with the large surplus of labor in the cotton mills is not the least of our social and industrial problems. We must agree with the editorial utterance of the Talledega (Ala.) Home that "the basic evil in the South is not with the cotton mills but with the economic condition of the farmer." If this can be corrected the cotton mill situation will take care of itself automatically. That writer proceeds to remark that farm wages in the states from Maine through Pennsylvania average \$3.57 a day while in the states of North Carolina and South Carolina, Georgia, Tennessee and Alabama the farm wage average is only \$1.45 a day.

The labor problem in the South is primarily agricultural. That phase of it which exists in the mills can never be fully handled until a solution is found for our farm population. Let us not fall into the mistake of giving all attention to the super-structure while the foundation is crumbling.

Consider also in connection with a discussion of wages that the pay allowed by cotton mills or any other business to their employees is dependent to a large extent on earnings. This, in my judgment, is at the very heart of the textile problem. Increasing wages with decreasing profits is as economically out of the question as it is physically impossible to bring the two poles together. Wages cannot be increased except as profits are increased. Certainly in the present state of the textile business when we attempt to balance this question of wages and earnings it will be clear to every thinking critic that a majority of cotton mills are paying the highest possible wages.

# Completing Great Natural Gas System

Extending Pipe Lines from Louisiana Fields to Alabama and Georgia

THE Southern Natural Gas Corporation's interstate natural gas transmission system, extending from the Monroe and Richland gas fields in north-eastern Louisiana, eastward through Mississippi to the Birmingham district, and to Atlanta, Ga., has now progressed to such a stage of completion that gas is being put into the line, which is being tested progressively eastward at a rate expected to bring gas to the Birmingham and Atlanta districts this month. The system under construction comprises the equivalent of a 22-inch line from the Monroe and Richland fields to the Birmingham district, and a 20-inch line to Atlanta. Total length of pipe in the main line and the feeders from the gas fields is approximately 496 miles. Numerous branches are being constructed, with a total aggregate length of approximately 438 miles, in size varying from 3½-inch to 12¾-inch outside diameter.

The lines in Louisiana and as far east as the Yazoo River pass through alluvial country typical of the Mississippi Valley, and no unusual construction problems have been encountered. The line from the Yazoo River east through Mississippi, and for some 30 miles into Alabama, passes through rolling country and presented considerable difficulties in construction due to necessity of avoiding sharp bends in the pipe. In some sections of this country there are as many as 10 hills and 10 valleys per mile, some

valleys being 200 feet or more deep. All but a few miles of the main line up to the above mentioned point in Alabama have been laid. From a point north of Tuscaloosa, Ala., for more than 100 miles to Pell City, Ala., the line passes through rough, rocky country, involving difficult pipe line construction problems. Progress possible in construction through such country is at the rate of less than a mile per construction gang per week, as compared with three miles per construction gang per week in ordinary country. In order to construct one mile per week, it has been necessary to employ gangs of more than twice the normal size for pipe line work, and to equip them with power shovels, ditching machines, air compressors, rock drills, and all the usual equipment for laying pipe. In some sections, a rate of construction of only half a mile per week or less has been possible. On this extremely difficult section of line, all but about 30 miles have been completed, and eight gangs of men are now at work thereon.

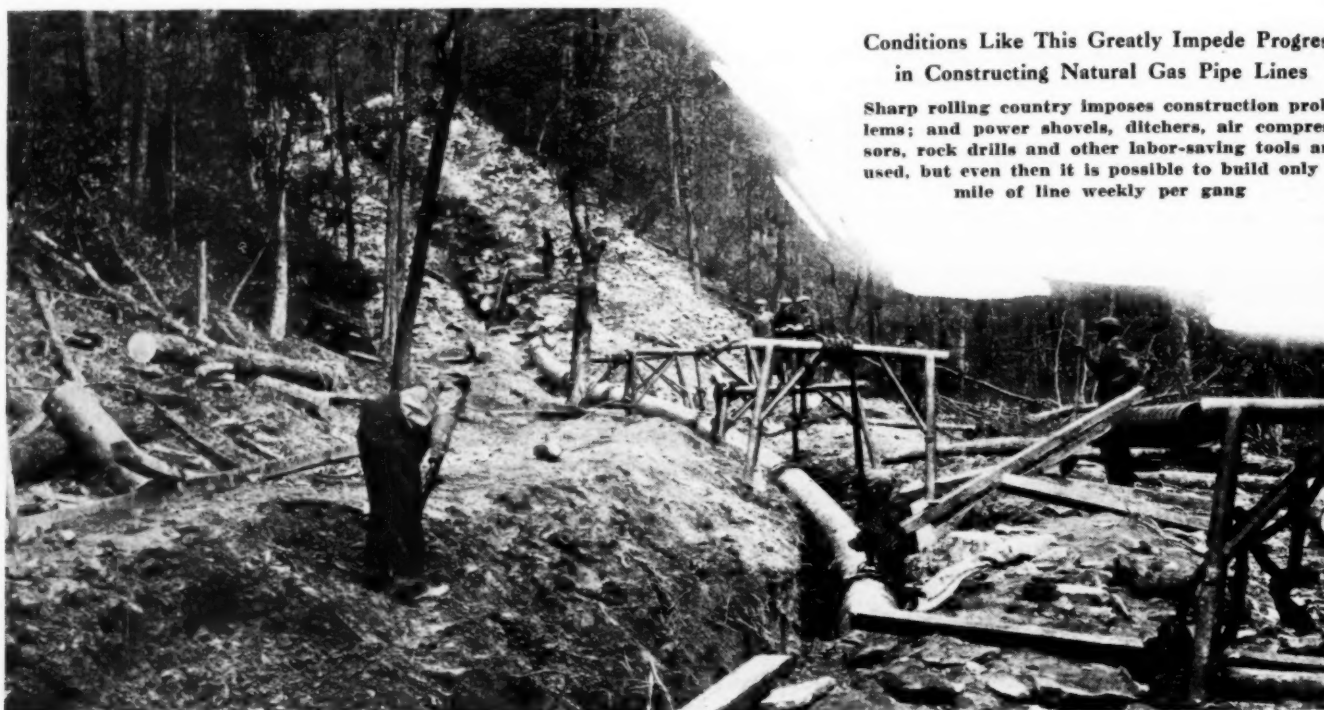
From Pell City, Ala., to Atlanta, Ga., the line runs through generally rolling country with exception of some rough country near Heflin, Ala. No unusual features have been encountered in construction here; about 50 miles of this section remain to be completed.

Construction of the branch lines has involved no unusual difficulties, and while work has not progressed as rapidly

as on the main line, it has gone forward at a high rate of speed under a program which should insure completion of more important branches simultaneously with completion of the main line.

Only one compressing station is being constructed at this time; it will contain four 1250-horsepower Worthington gas engine driven compressors. The building is of structural steel frame with corrugated asbestos siding and roof and steel sash. It has been laid out to facilitate extension to at least 10,000-horsepower, and to reduce to a minimum the number of men required for its operation.

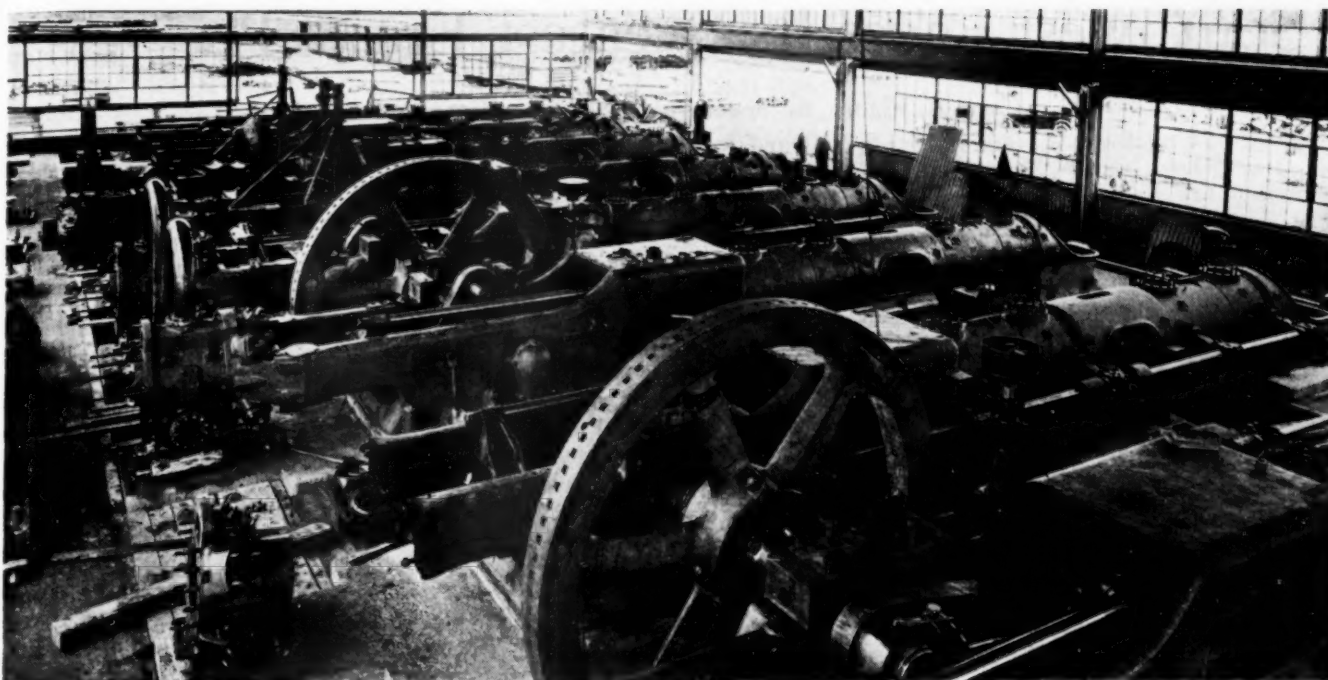
The Southern Natural Gas Corporation has entered into 20-year agreements with leading producers in the Monroe and Richland fields for purchase of natural gas. Based on their estimated available reserves, each member of the so-called "producers group" is to supply the corporation, under such contracts, with a proportionate part of its requirements. The producers group is reported to control more than 366,000 acres in and near the two Louisiana fields, comprising all but a small part of the proven gas acreage of both fields. Included in this group are the United Carbon Co., and companies identified with the Columbian Carbon Co., the Electric Bond & Share Co., the Standard Oil Company of New Jersey and the Moody-Seagraves interests. The corporation will supply natural gas in the territory adjacent to its



Conditions Like This Greatly Impede Progress in Constructing Natural Gas Pipe Lines

Sharp rolling country imposes construction problems; and power shovels, ditchers, air compressors, rock drills and other labor-saving tools are used, but even then it is possible to build only a mile of line weekly per gang





Initially This Compressor Station Will Serve the Line

This will house four 1250-horsepower compressors driven by gas-burning engines. Provision has been made to increase the capacity to 10,000 horsepower

lines, directly or through subsidiary companies to industrial users, and indirectly, for domestic and industrial use, through other distributors. Through long term agreements it will furnish at wholesale the entire requirements of companies distributing gas for domestic and industrial purposes in Atlanta, Marietta and Rome, Ga.; Anniston, Gadsden and Tuscaloosa, Ala.; and Columbus, Miss.

The Southern Natural Gas Corporation, shortly after its organization under the laws of Delaware in May, 1928, entered into contracts with Ford, Bacon & Davis, Inc., engineers, New York, for supervision of construction and management of its properties, subject to the direction of the corporation.

Construction contracts awarded in connection with the project include the following:

**Pipe Line Construction**—Williams Brothers, Inc., Tulsa, Okla.; Oklahoma Contracting Co., Dallas, Texas; Hope Engineering Company, Mt. Vernon, Ohio; Sheehan Pipe Line Construction Co., Tulsa; Walker & Lawrence, Okeechobee, Fla.

**Meter and Regulator Stations**—Ford, Bacon & Davis, Inc., New York

**Compressing Station**—A. M. Lockett & Company, New Orleans

**Employees Houses**—Waddell & Laycock, Tuscaloosa, Ala.

**Mississippi River Crossing**—O'Brien Bros. Construction Co., Chicago

**Other River Crossings**—(Same as Pipe Line Construction)

Principal materials employed in construction have been furnished as follows:

**Pipe**—National Tube Company, Pittsburgh,

Pa.; Republic Iron & Steel Co., Youngstown, Ohio; A. O. Smith Corporation, Milwaukee, Wis.

**Couplings**—S. R. Dresser Mfg. Co., Bradford, Pa.

**River Clamps**—Mobile Pulley & Machine Co., Mobile, Ala.; Hardie Tynes Mfg. Co., Birmingham; Goslin Birmingham Mfg. Co., Birmingham

**Telephone Lines**—Petroleum Electric Co., Tulsa, Okla.

**Valves**—Crane Company, Chicago, and Westcott Valve Company, Inc., East St. Louis, Ill.

**Fabricated Pipe and Headers**—Crane Company in Birmingham

**Pipe Coatings**—Willes Dove-Hermiston Co., New York; The Barrett Company, New York

**Gas Engine Compressors**—Worthington Pump & Machinery Co., New York.

**Gas Coolers**—Griscom-Russell Company, New York.

**Water Wells**—Layne Central Company, Memphis, Tenn.

**Meters (Portion)**—Metric Metal Works, Erie, Pa.



Heavy Duty Power Machinery Helps to Speed Up Construction Through Difficult Country

# Southwest Faces Its Greatest Era of Progress

Central Figure in Spectacular Saga of Finance Says  
Texas Holds Reward for Youth of Spirit and Stamina

By WELLINGTON BRINK.



F. F. Florence

"WITH the stock market illusion definitely dispelled, with bonds again attractive, with speculative funds turning toward soberer purposes, Texas and the entire Southwest are facing the most impressive opportunities in their history. Since the tumbling exchange prices of late October and early November, there has been more talk of building operations in Dallas and throughout the State than ever before. Large projects are to be made larger. Real estate is decidedly on the up-trend. Manufacturing is to experience rapid development. Never before has Texas banking been on such a sound basis as now. Because Texas and her companion States are primarily producers of necessities rather than luxuries, I look for an extraordinary response to the diversion of moneys into investment channels and to the happy change in the financial viewpoint of the public. Once more the people are concentrating on their jobs. And as always when they do this, they are going to give a splendid account of themselves."—F. F. Florence, president of the Republic National Bank & Trust Company, Dallas, Texas.

There is an assurance, a quiet forcefulness, about this young president of a great banking house, Fred Farrel Florence, calculated to afford comfort to those who have been told that America is waxed fat and lazy of prosperity, and that the oncoming generation will render a dismal stewardship of its heritage of wealth, wisdom and resources.

Hailed as the coming financier of the Southwest, as a result of a rapid succession of financial coups, Fred Florence, at thirty-eight, has blazed his way fast and sure to his present position of civic and banking eminence.

There is drama in this meteoric career, the arresting drama of the new Texas with its waiting reward for youth of energy, brains, ideals and imagination. Florence was endowed with all of these. Born in New York City in 1891, when one year old he looked upon the pine-clad hills of Cherokee County, Texas, which were later to impress him so thoroughly with their wide diversity of agricultural and mineral resources, and with the thrift, enterprise and sturdy character of the citizenship.

The boy flourished in this environment of hospitality and industry, where effort and intelligence were placed at premium, and where the diet featured cornbread, blackeyed peas, buttermilk, turnips, barbecue and other ingredients that have helped to produce statesmen and business leaders since early statehood. He went to school at night, worked in a crate factory by day. At twelve, by skillful maneuvering which would have done credit to the man who in maturity negotiated deals involving many millions, he acquired the Dallas Morning News agency. Instead of simply delivering his ten or twelve papers, he began calling his wares; he became Rusk's unofficial town crier, his voice appraising residents two miles distant of the arrival of the mail train. He built his subscription list to more than a hundred.

Finishing high school at sixteen, Florence lost no time entering the employ of the First National Bank at Rusk. Two years later he was sent as a duly accredited delegate to the Texas bankers convention at Houston. Although only a teller, he held up his end of discussions

with grayhaired financiers and made friends and acquaintances among Easterners, who were destined to be of incalculable assistance to Florence and his affiliations in later years.

At nineteen Fred Florence became assistant cashier. In quick succession thereafter he was an employe of the American Exchange National Bank in Dallas, cashier of the First State Bank in Ratcliff, vice-president and president of the Alto State Bank, Alto, at twenty-one. He enlisted and served to the end of the war in the aviation branch of the army, returning to the bank presidency at Alto and the mayoralty of his town.

In 1920 the newly launched Guaranty Bank and Trust Company, Dallas, felt the need of fortifying itself with the strongest human timber available. Quietly it conducted a search that extended hundreds of miles across the oil-bathed, cotton-blanketed, cattle-dotted plains of the West, far down through the rich blackland belt to the busy harbors and languorous watering places of the Gulf coast, and at last into the sturdy hill lands of the east. There it found its man—a youth with the will to work, the courage to fly, a knack for organization, and a keen perception of human values. A moderately small bank in a moderately large city, it needed the man at least as much as the man needed it. Florence had vision. He foresaw rapid expansion of Dallas population and Dallas industry. He anticipated a widening of the Dallas trade area. He saw the seed of many opportunities waiting for the banking institution that would search out ways to serve the people. So he readily accepted the proffered first vice-presidency.

Florence quickly justified the confidence reposed in him, and he, in turn, was not destined for disappointment. From the very first, he made an effort to have the traditional "banker's glass eye" appear more kindly. Small business began coming in large volume, bigger business presently began to solicit suggestions and help from Florence and his associates. In two years the Guaranty added to its capital and converted from a State to a National status.

"The human element is largely responsible for our success," I was told by the man who early in 1929 became president of the Republic National Bank & Trust Company, the institution which in less than ten years advanced to second place in city and in state. "I have always



Sketch of Republic National Bank & Trust Building, Dallas, with New \$1,000,000 Addition Shown at Left



believed in keeping upon close, cordial personal relations with the banking public. While it is frequently impossible to arrange loans in the exact form presented, I find that we can often suggest changes, work out methods, and revamp plans so that they will be acceptable. My fellow workers and I take real satisfaction in seeing the small business man become the big business man partly as a result of our friendly collaboration. Of course, I like big business but I must admit that the large concern is usually less malleable, its policies are necessarily more or less fixed; as a result, loans are usually matters of a simple yes or no."

Yet here is the man who is credited with swinging some of the biggest deals in the Southwest. Here is the individual who brought about the sale of Sanger Bros. and handled similar negotiations for other department stores and for life insurance companies; who has pioneered in the branch banking movement in Texas, and who has in recent months astonished Texas by a series of daring mergers. Today Fred Florence heads a business having combined resources of \$83,206,796, deposits of \$66,562,344, capital, surplus and undivided profits of \$8,157,596.

As a result, Fred Florence constitutes one of the best advertisements that Texas could possibly have. When he goes to Wall Street, doors open before him without any apparent pressure of his hand, and the shade of Horace Greeley mur-

murs, "Go West, young man, go West!"

Yet Florence is not a prophet without honor in his own country, for in Dallas he is loved as much as he is relied upon, and he is, or has been, at the head of nearly every Dallas organization of mercy. He is known as a patron of music, the theater and the sciences, a pillar in his own religion, and a philanthropist. His connections are many, yet he remains the same modest young man of news-agency days, and he prizes his directorship in the Alto State Bank quite as highly as his similar position in the Petroleum Corporation of America. He yells with unabandon at football games, even though accompanied, as at the exciting S. M. U.-Baylor contest, by such a distinguished Britisher as Lord Churston.

"I believe implicitly in the future of Texas and the Southwest," Mr. Florence said to me. "We are just beginning to progress. I can conceive of no more inviting opportunities for fortunes to be made, spheres of true usefulness to be found, than in this section in the next few years. To the youth of spirit and stamina who is willing to dismiss possible stock market losses already experienced, the Southwest presents at this time an unexcelled chance to get in on the virtual ground floor of basic business, industry and commerce. There can be no disappointment. Texas holds a sure reward for those of faith, enthusiasm, persistence and courage."

## \$28,000,000 Expenditure in 1930

**Georgia Power Company Plans Outlay of \$16,000,000 for New Construction and \$12,000,000 For Maintenance and Operation**

Atlanta, Ga.—P. S. Arkwright, president of the Georgia Power Company, announces the proposed expenditure of \$16,000,000 by his company for new construction in Georgia in 1930. This expenditure is a part of the program of the company to keep pace with the progress of the State and is the largest amount it has expended for new construction in any single year of its history. The outlay will be made for improvements and enlargements of existing facilities and is exclusive of necessary expenditures for maintenance and operation of the company's electric, street railway and other services and for taxes, salaries, wages and other expenses. A total of \$12,000,000 additional has been provided for these expenditures, bringing the company's total outlay for materials and labor in 1930 to \$28,000,000.

Plans are being made not only to go ahead full speed, but on a larger scale than ever, according to Mr. Arkwright.

New electric power facilities will be provided, including generating stations, lines, substations and other improvements, in preparation for additional industrial growth in the state, as well as to supply electric service to communities now without such service and for improvements to the present service of residential and commercial customers. Two of the largest items of the company's 1930 construction program are the Atkinson steam-electric generating plant being built on the Chattahoochee River near Atlanta, and the hydro-electric development at Furman Shoals on the Oconee River, near Milledgeville. Work on both projects was started this year and is being carried forward with large forces. The first unit of the former, designed for 100,000 horsepower capacity, is scheduled for completion in 1930; ultimate plans call for a capacity of 400,000 horsepower. The Furman Shoals development will have a capacity of 60,000 horsepower.

## \$14,000,000 Expansion Program in 1930 by Alabama Power Co.

Birmingham, Ala., December 11—The Alabama Power Company will continue its program of expansion next year, and plans to expend on developments, improvements, extensions and operations the sum of \$14,000,000, according to a statement issued by President Thomas W. Martin.

Of this sum, more than a \$1,000,000 will be spent on rural line extensions. Recently the company issued a statement to the effect that the 1930 rural program calls for 69 additional lines extending for a combined distance of 619 miles and affecting forty counties.

Included in other major expenditures is a sum sufficient to complete the lower Tallassee development, which will add 108,000 horsepower to the company's system.

Extensions of the general system of the company, which serves now all but seven counties in the State, and improvements in all phases of service, including street railways, are listed as items for 1930 expenditures. No new major developments were announced.

"Anticipating a normal increase in power consumption and having an abiding faith in both the present and the future growth of Alabama, we confidently believe that the large sum budgeted for 1930 will, as usual, be inadequate to take care of the operating and construction program planned for the year," stated Mr. Martin.

"Present rate cuts of over \$1,000,000 per year in the company's revenue from domestic and commercial service ordered by the Public Service Commission, will not affect the company's immediate expansion and improvement program," continued Mr. Martin. "While these material reductions in our revenue are much greater than the company should stand at this time, we feel that our first duty is to provide the best possible service to the greatest number of people, and it was with this in view that our plans for the next year have been formulated. We hope that the changes in our rates will enable the more extensive use of electric service, and thus make permanent the lower schedule of rates prescribed by the Commission."

Mr. Martin is of the opinion that the Southeast, and Alabama in particular, is on the threshold of a most prosperous era.

"The power company, along with other large industrial concerns, is preparing to usher in the New Year with optimism and an unshaken faith in the South as the only 'remaining American frontier' that is destined to see a continuation of the development and prosperity which have and are attracting the attention of the nation," concluded the power executive.

## Tarrant County and Fort Worth Expending Millions

**\$4,920,000 Road Construction and \$6,500,000 Water Project Major Items—  
Other Big Projects Under Way or Planned**

Fort Worth, Tex.—Tarrant County and Fort Worth are expending millions of dollars for various improvements, while private and public corporations and individuals are expending additional millions in the same section, according to figures compiled by the Fort Worth Association of Commerce. Several months ago Tarrant County voted a bond issue of \$4,920,000 for roads and bridges, this amount having been doubled by state and federal aid. A number of projects are under way and others will be undertaken soon. A block of \$2,700,000 bonds has been approved by the Attorney General's office and will be sold immediately. Tarrant County Water Improvement District No. 1 recently voted \$6,500,000 for building two dams on the west fork of Trinity River near Fort Worth. Reservoirs to be created will have a joint capacity, it is estimated, sufficient to supply water for 1,000,000 people and will make possible the irrigation of 52,000 acres of land. A block of \$2,000,000 of these bonds has been sold and land for the reservoirs is being purchased. The first contracts on the project are expected to be awarded soon.

From various bond issues, Fort Worth has approximately \$4,600,000 available for grade separation, street widening, creation of new traffic arteries, construction of bridges, construction of a new central fire station and improvements at the municipal airport, and work on a number of these improvements is now under way. The Texas & Pacific Railway Company, which recently completed new yards and shops at a cost of \$6,000,000, plans a new terminal freight warehouse and passenger station to cost \$8,000,000 and on which work is expected to begin within 60 days. Plans are practically complete for a \$2,000,000 passenger station and freight terminals for the Gulf, Colorado & Santa Fe Railway.

Buildings under construction include a \$2,000,000 office and store building of 18 stories, a \$750,000 church and a \$600,000 theater. Excavation is in progress for a 15-story office building to cost \$1,000,000 and work is expected to begin February 1 on a 20-story office building also to cost \$1,000,000. An appropriation of \$1,400,000 has been made for a new federal building in Fort Worth; a \$1,000,000 Masonic temple is planned; a site has been purchased for a \$300,000 department store, and plans are being completed for a \$350,000 public market. Six residential sub-divisions were placed

on the market during this year and a total of \$2,000,000 expended for grading, paving, sewers, water lines and other facilities. For the past several years, residential construction has averaged \$7,000,000 annually and a recent survey showed only 3.5 per cent of the residences vacant. A casino burned several months ago on Lake Worth will be rebuilt at a cost of \$250,000.

During 1929 W. T. Waggoner expended about \$2,000,000 for constructing a race track, fences, stables and other accessories at his stock farm at Arlington and further construction to cost \$1,000,000 is expected to be undertaken soon. A site has been purchased for a \$500,000 bus terminal here. There are now pending before the Interstate Commerce Commission 13 applications to build new railroads in West Texas, involving 1000 miles of new lines to cost \$50,000,000. Building permits were issued in this city during the first 11 months of 1929 for construction to cost \$11,000,000, of which approximately \$7,000,000 was for residences and apartments and \$2,500,000 for commercial structures and \$1,500,000 in industrial plants.

### **\$1,000,000 Insulation Board Plant**

Pensacola, Fla.—Contract to erect the buildings for the new \$1,000,000 insulation board plant here for the Armstrong-Newport Company has been awarded to the Worden-Allen Company, Milwaukee, Wis., the work to embrace structural steel, covering, sash and windows. The C. H. Turner Construction Company, Pensacola, has contract for concrete work. The main building will be 980 by 75 feet.

### **To Expend \$4,000,000 in 1930**

Jackson, Miss.—Plans have been announced by the Mississippi Power and Light Company, L. V. Sutton, general manager, for the expenditure of \$4,000,000 in the state during 1930, for the extension of natural gas lines and gas distribution systems, and for the expansion of electric transmission systems.

### **E. L. Bruce Company Expands**

Laurel, Miss.—E. L. Bruce Company, Memphis, Tenn., recently acquired the Marathon Lumber Company plant here. The Bruce Company is a leading producer of hardwood lumber, owning and operating two plants each in Mississippi,

Arkansas and Tennessee, and one each in Louisiana, Illinois and Michigan. Production consists of oak flooring, maple flooring and lumber—both hardwood and pine. The Laurel plant includes a double band and resaw mill, planing mill, dry kilns, timber tracts, logging equipment, office building, railroad, machine shop, log cars, skidders and loaders and dwellings for operatives. The purchase also includes hardwood timber belonging to the Marathon Lumber Company and the Wausau Southern Lumber Company, which will assure the Bruce company 10 years' operation here, it is said.

### **\$7,658,000 BONDS PROPOSED FOR TULSA**

#### **Chamber of Commerce Recommends Improvements to City Commission**

Tulsa, Okla.—Directors of the Chamber of Commerce have recommended to the city commission that an election be called for December 31 on 14 improvement projects involving an estimated cost of \$7,658,000, to be financed by bond issues. The improvements would embrace a three-year program with approximately 40 per cent of the bonds to be issued in 1930, and 30 per cent each in 1931 and 1932. Recommendations include the following: Major street work and grade separations, \$2,000,000; widening Arkansas River bridge, \$400,000; storm and sanitary sewers, \$1,600,000; parks, \$600,000; municipal airport, \$600,000; police traffic signal system, \$40,000; fire department and signal system, \$475,000; municipal hospital, \$75,000; convention hall and auditorium, \$1,000,000; addition to city court building, \$30,000; municipal building in the negro section, \$100,000; two police substations, \$20,000, and a new central library and additional branches, \$595,000.

### **\$7,000,000 RAILROAD EXPEN- DITURE**

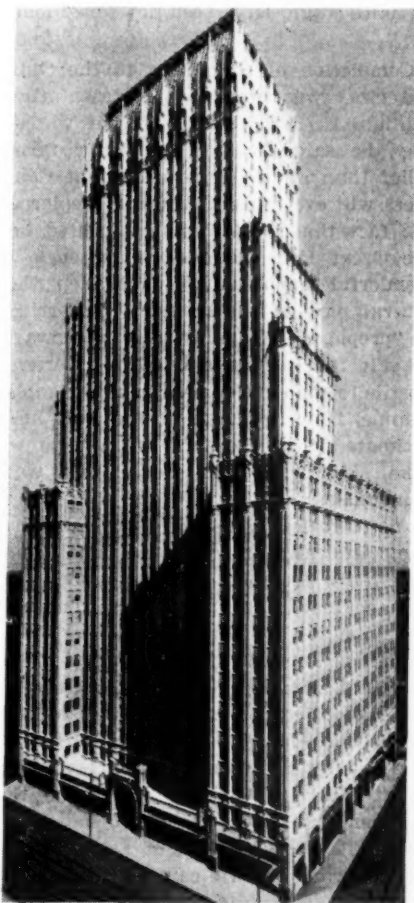
#### **Missouri-Kansas-Texas Plans Various Improvements**

Dallas, Tex.—An improvement program planned by the Missouri-Kansas-Texas Railroad Co. for 1930 involves an expenditure of approximately \$7,000,000, according to H. E. McGee, vice-president and general manager. In addition to constructing 500 new coal cars at the company's shops at Denison, Tex., the road will purchase 100 heavy coal cars. Additional automatic signals will be installed on the main lines at a cost of \$500,000, heavier rails will be laid and ballasting placed on several important divisions of the system. Grade crossings will be eliminated and a number of wooden bridges will be replaced by concrete structures.



### \$3,000,000 Office Structure Completed at Memphis

The Sterick Building, recently completed at Memphis, Tenn., is a \$3,000,000 structure built at Third and Madison streets by a corporation bearing the name of the two streets and headed by Wyatt C. Hedrick, architect of Fort Worth, Texas. The new building, with its 29 stories, basement and sub-basement, is described as the city's highest and most imposing skyscraper. It is of structural steel and reinforced concrete, exterior walls at the base being of Minnesota pink granite; from that point to the third floor of Indiana limestone, and above that level of artificial stone. The polished granite entrance leads through bronze doors into the lobby furnished in Belgian and Italian marble with a Tennessee marble floor, ornate filigree molding and frescoed arches



29-Story Sterick Building, Memphis, Tenn.

harmonizing with the Gothic architecture of the edifice.

The mansard roof is covered with green tile. Terrazzo floors with marble wainscoting are used throughout the structure. Running ice water is available on each floor. Woodwork is quarter-sawn oak, and the hardware a special design by Corbin. Eight Otis elevators, with micro-electric control, Monel metal doors and bronze entrance doors, serve

the building. Four elevators operate to the 13th floor and the others to the top. The building is equipped throughout with Hunter ceiling fans and Ray-o-lite blinds. A restroom and showers for women is provided on the 13th floor.

The Dunham heating system employed uses Kewanee boilers. First floor ventilation is accomplished by Aerofins; this floor contains about 12,000 feet of space and is arranged for nine stores.

Wyatt C. Hedrick, Inc., Fort Worth, is the architect, and the Bellows-Maclay Construction Co., Dallas, are general contractors. The Virginia Bridge & Iron Co., Roanoke, furnished the 3500 tons of steel, and the J. W. Hull Plumbing & Heating Co., Memphis, handled plumbing, heating and ventilating installation.

### \$4,000,000 IRRIGATION SYSTEM

Texas Project Would Reclaim 69,000 Acres

Edinburg, Tex.—Construction of a \$4,000,000 irrigation system for reclaiming more than 69,000 acres of land in the Rio Grande River valley to the north and northwest of this city, will be undertaken by the Hidalgo County Water Control and Improvement District No. 12, which has been created by the Hidalgo County Commissioners' Court, composed of A. W. Cameron, county judge, W. L. Lipscomb, W. D. Chaddick, R. H. Henderson and S. G. Hargroves. The newly-created district is one of the largest in the entire valley. Tentative plans call for concrete-lined canals and large reservoirs, with a pumping plant at the intake at the river.

### To Let Sewer Contracts and Sell Bonds

Hattiesburg, Miss.—Bids will be opened January 21 by the City Commission on the entire sewer construction program for Hattiesburg, to involve an expenditure of approximately \$400,000. The city opens bids January 9 for the purchase of \$1,000,000 municipal bonds, of which \$750,000 will be used for the water system and \$250,000 for the sewer system. A fund of \$150,000 is already available for sewer work.

### \$4,000,000 Bond Election

Birmingham, Ala.—An election has been called for February 15 on a bond issue of \$4,000,000, to include \$3,000,000 for the first unit of a storm drainage system to prevent floods in the low lying sections of the city, and \$1,000,000 for a municipal airport. Preliminary plans for the improvements have been prepared by A. J. Hawkins, city engineer.

### \$6,000,000 EXPANSION PROGRAM

Arkansas Natural Gas Corporation Announces 1930 Budget

Shreveport, La.—The Arkansas Natural Gas Corporation announces an expansion program for 1930 estimated to cost \$6,000,000, not including the outlay for fixed expenses and maintenance. The expenditure will involve gas pipe lines, compressor stations, gas well drilling operations and oil exploration and development, acquisition of acreage and the construction of new plants.

### \$2,500,000 Telephone Building

Bids are to be invited soon by the Southwestern Bell Telephone Company, St. Louis, for erection of a \$2,500,000 administration building in San Antonio, Texas, as a part of an expansion program in that city. The structure, to be



New Telephone Building for San Antonio

erected on Martin street at Auditorium Plaza, will be 8 stories, basement and sub-basement, and will comprise the first unit of a 21-story building. It will be of modified Spanish design with a brick and terra cotta exterior. Installations will include a power plant and dial long distance and terminal equipment. I. R. Timlin, St. Louis, is the company architect and B. D. Hull, Dallas, Tex., chief engineer.

### 46-Mile Rail Line

Seagrave, Tex.—The Interstate Commerce Commission has granted authority to the South Plains and Santa Fe Railway, Lubbock, Tex., to extend its line from Seagrave to Lovington, N. M., a distance of 46 miles. At the same time the commission refused authority to build a 43-mile line south from Lovington.

### \$1,500,000 Water District Bonds

Edinburg, Tex.—Bonds in the amount of \$1,500,000 have been put on the market by the Hidalgo County Water Control District No. 1. The bonds will bear an interest rate of 6 per cent.

# National Rivers and Harbors Congress Endorses Hoover's Waterways Program

Meeting in Washington December 10th  
and 11th Hears Famous Speakers

[Special Correspondence Manufacturers Record.]

Washington, December 14.

To the address of the newly appointed Secretary of War, Colonel Patrick J. Hurley, the Rivers and Harbors Congress gave an enthusiastic reception. This was the new Secretary's first address since his appointment and he definitely aligned himself with the administration in its vigorous support of the comprehensive development of waterways when he said that President Hoover had "brought to the country a new and complete conception of waterways," and quoted his Chicago address of March 9, 1926, as follows:

"I put forward the idea that we must visualize our inland waterways as a great, connected transportation system rather than as disconnected lake, canal and river projects. These broken segments in improvement of our waterways are, I believe, both a reason for their failure in the results that had been hoped for them and at the same time proof that if we would complete and organize our interior drainage into a modern consolidated transportation system we shall go a long way toward solving this whole economic problem."

Col. Hurley described the 9000 mile system of navigable and potentially navigable channels of the Mississippi System, serving "the very heart of our country"; the Atlantic Intracoastal Canal which, when completed, will provide a barge route from Boston to Miami; the Gulf Intracoastal waterway, to reach from Florida to Texas and to extend the range of the Mississippi System to all the states bordering the Gulf of Mexico; and several smaller systems on the Pacific Coast.

"There are five projects," said the speaker, "dedicated to the reduction of transportation costs between the farm and the seaboard. The improvement of the Missouri River, the deepening of the upper Mississippi, the completion of the Illinois River, the amplification of the Great Lakes Channel, and the canalization of the St. Lawrence River need but to be named to indicate their potential effects on increasing the farmer's surplus, by reducing the transportation tax on his products.

"The improvement of waterways is a sound economic policy. The plan under which projects are adopted safeguards federal funds, expenditures being authorized only when careful study indicates that a definite commercial or navigation

need exists and that adequate benefits will result."

Summarizing the administration's policy as laid down by the President in his Louisville address, Col. Hurley said,

"(1) The improvement and modernization of our waterways in aid of our farms and industries wherever economic justification can be shown.

"(2) The completion of the entire Mississippi System within the next five years.

"(3) Completion within ten years of the Intracoastal Waterways program.

"(4) The expediting of the flood control work on the lower Mississippi.

"(5) The continuing development of our harbors and the littoral waterways which extend inland from them."

Representative Riley J. Wilson, Louisiana, president of the National Rivers and Harbors Congress, in his annual address referred to the completion of the canalization of the Ohio River as an instance of the realization of a long-cherished dream of the waterways advocates, and declared it was "the beginning of a period of much shorter duration in which we shall see the completion of an adequate waterways system for the United States."

Speaking for the National Rivers and Harbors Congress, President Wilson said, "When any project for navigation and commerce has been examined by the properly constituted authorities of the nation and approved as worthy and justified, then, as a part of a national policy, this congress favors its completion and utilization at the earliest possible moment."

Widening and deepening of the Panama Canal, or construction of another oceanic canal if necessary, and completion of a Great Lakes to Gulf of Mexico waterway by completing the link from Chicago to the Upper Mississippi, were projects endorsed by Representative S. Wallace Dempsey, New York, chairman of the House Committee on Rivers and Harbors. Referring to proposals for a deep waterway from the Great Lakes to the Atlantic, Mr. Dempsey saw "no nearer approach than was the case 15 years ago, when the subject first came before Congress."

The necessity for a ship channel from

the Great Lakes to the Atlantic was emphasized also by Senator Smith M. Brookhart of Iowa, either by way of the St. Lawrence or the all-American route through New York State. The speaker added that the Missouri River likewise was susceptible of development, for a nine foot or a twelve foot channel should be developed, and in fact, was far behind the normal stage of development for our rivers. If that river were in Russia, he said, "fifteen hundred of its miles would have been developed long ago."

Completion of the Lakes to the Gulf waterway was urged by Representative William E. Hull, Illinois. That waterway, he said, "will give greater farm relief than all the legislation that Congress will ever pass." Mr. Hull deplored the fact that "a few states located on the Great Lakes should oppose such a wonderful opportunity to develop the central part of the nation." Referring to "propaganda" against this waterway, he said it had been started by interests hostile to the development of a navigable channel from the Lakes to the Gulf, and intimated that the talk of damage to lake shipping by lowered levels was camouflage, as the level of the Lakes is not affected more than six inches by the withdrawal through the canal, and that only temporarily. In support of this contention he pointed to the fact that the level of the Lakes has never remained constant for long at a time, and said that the highest level on record in Lake Michigan had occurred on last October 23, in spite of the operation of the canal. He quoted estimates of the Joint Board of Engineers on the St. Lawrence waterway project to show that for \$3,400,000 the levels of Lakes Michigan, Huron and Erie can be permanently restored, and said that the Chicago Sanitary District is willing to pay \$1,750,000 of this amount. "In my judgment," said Mr. Hull in concluding, "it is doubtful whether the lake levels are the real bone of contention, when they could be restored so easily and cheaply. It seems that power or commercial supremacy, or both, are probably the real issues."

Another champion of the St. Lawrence ship channel project appeared in the person of Senator Thomas J. Walsh. The Montana Senator stated that "No plan or project for farm relief, so far as the



middle west or northwest is concerned, offers ground for anything like the hope held out by this improved waterway," and he predicted that the opposition "will be overcome. The consummation may be delayed, but it cannot be defeated."

Opposition to the project was voiced by Senator Royal S. Copeland, New York, who said that "the farmers of the West honestly believe that it will act in some mysterious way as a remedy for their economic ills." And he added, "Frankly, I regard the St. Lawrence waterway project as a water power scheme. The navigation feature is merely incidental to hydro-electric development." Again, "Hydro-electric development and navigation are two separate and distinct things. They are almost as impossible to mix as are oil and water." Declaring that powerful interests in the United States and Canada are back of the project, he said, "These interests are selfish interests, interests devoted to the accretion of private wealth. They are not like the western advocates, striving for self preservation. On the contrary, they are men who seek to corral the water power resources of the country. They are determined that cheap electricity shall not compete with their wealth producing properties and lessen their inflated dividends."

Acceleration of the comprehensive waterways program outlined by President Hoover was advocated by Senator Joseph I. Ransdell, Louisiana; Representative Charles G. Edwards, Georgia; and Representative Grant M. Hudson, Michigan. "We must hold up the hands of the President as he is doing everything possible to benefit the people seeking to provide cheap transportation," said Senator Ransdell, who for many years was president of the National Rivers and Harbors Congress. He cautioned members to look out for the antagonistic propaganda of the railways, attributing to their obstructive tactics much serious delay in waterway construction.

Mr. Edwards urged speedy completion of the Great Lakes to Gulf waterways, the Atlantic Intracoastal Canal, the Gulf Intracoastal Canal, and the construction of a canal across north Florida and south Georgia to connect the Gulf with the Atlantic. "I do not like the policy of limiting waterway development to \$50,000,000 or \$55,000,000 per annum," said Mr. Edwards. "There has been general agreement on a policy and the job should be done."

"We can all now see the value of inland waterways," said Mr. Hudson, but he warned against the development of any one waterway at the expense of others, saying that too much diversion from Lake Michigan at Chicago in order to provide a channel to the Gulf might

injure all shipping on the Lakes and the Great Lakes-St. Lawrence seaway.

Flood control in the Mississippi Valley was discussed by General Lytle Brown and by Senator Frederick M. Sackett, Kentucky. "No delay in carrying out protective measures in the Mississippi Valley can be tolerated," said General Brown, "even if thereby a cheaper plan might be devised. The possibility of another disastrous flood during such delay cannot be overlooked." He took the position also that greater speed than previously planned would be essential. He considered it a mistake for the former Chief of Engineers to have set 10 years as the length of time necessary for the work, saying that it "can be justified in this case only by the supposition that our income prevents a faster spending of this money."

Utmost speed consistent with thoroughness was urged by Senator Sackett in making of the surveys of the tributaries and studies based thereon looking to control by storage. The speaker pointed out that the law requires these surveys, they are now being made, and we cannot plan for storage until they are completed, but he stated that flood control will not be comprehensive and adequate until the tributaries also are protected, and in such manner that their protection adds to the safety of the Mississippi Valley.

Representative Riley J. Wilson, of Ruston, La., was reelected president of the congress for his fifth term. S. A. Thompson, of Washington, entered his eighteenth term as secretary-treasurer. Senator Ransdell, of Louisiana, and John H. Small, of Washington, were elected lifetime honorary directors. Other directors elected included James H. Preston and Clement S. Ucker, both of Baltimore.

Among the State vice presidents elected was Frank P. Leetch, local realtor, who has represented the Washington Board of Trade on rivers and harbors affairs. Mr. Leetch will continue this affiliation as well as represent the District on the National Rivers and Harbors Congress. J. Fulmer Bright, of Richmond, was chosen State vice president for Virginia, and George E. Sutherland, of Charleston, for West Virginia. Richard Woods Edmonds, of the MANUFACTURERS RECORD, of Baltimore, was chosen vice president for Maryland.

### Grapefruit Canning Plant Begins Operations

Tampa, Fla.—With more than 100 employes engaged, the new grapefruit canning plant here of Shaver Brothers, Inc., Jacksonville, has started operations with a daily capacity of 1200 cases.

### 300-MILE RAILROAD PROPOSED

#### First 50 Miles Said to Have Been Financed

Corpus Christi, Tex.—Plans are being promoted by Ed Kennedy, developer, for the construction of a 300-mile railroad from the deepwater terminal here to San Angelo, and it is understood that work will get under way within a few weeks. The Blanton Banking Company, Houston, is said to have contracted with a New York house to finance the first section of 50 miles by underwriting \$1,500,000 6 per cent bonds to mature serially in 25 years. Rights-of-way have been secured through Texas counties, it is said, and areas purchased in a number of counties for townsites. The railroad is to be built eventually to Roswell, New Mexico, according to Mr. Kennedy.

### \$900,000 RAILROAD BRIDGE AT DALLAS

#### Texas and Pacific Railway Plans 2000-Foot Structure

Dallas, Tex.—Instead of a crossing consisting of piling trestles and only four steel spans, as originally planned, the Texas & Pacific Railway Company will build a 2000-foot steel bridge across the Trinity River here at a cost of \$900,000, exclusive of fills. Plans call for steel piers to support 60-foot steel girder spans to bridge the entire distance, with the exception of a 200-foot steel span over the new channel of the river. The bridge will carry double tracks, about 13 feet higher than tracks on the present crossing because of the levees being built under the reclamation program. It will be built alongside the present structure on the north side and will carry 110-pound rails. Contracts are to be awarded within 60 days.

### \$2,500,000 Bonds Voted

Corpus Christi, Tex.—By a vote of 2489 to 712, Nueces County, Roy D. Clift, county clerk, recently voted a bond issue of \$2,500,000 for the construction of roads. Plans of the county commissioners contemplate the sale of \$625,000 of the bonds annually and it is understood that bids will be opened within 60 days for the first block.

### \$300,000 Store Expansion

Memphis, Tenn.—General contract has been awarded by the John Gerber Company to E. J. Pearson, local contractor, to rebuild and enlarge its department store, at a cost of approximately \$300,000. Joe T. Wallace is the architect and Ralph E. Dippell, engineer, both of Memphis.

## A Texas Appeal for a Protective Tariff That Would Create Prosperity for Farmers As Well As for Manufacturers

*Geo. W. Armstrong, president of the Texas Steel Co., Fort Worth, and owner of 23 cotton plantations in Mississippi, sends to the MANUFACTURERS RECORD copy of a letter he has recently written to Senator Connally of Texas. The statements made by Mr. Armstrong should arouse thinking people to consider the effort of the Senate Committee to discredit such men as John H. Kirby, who outranks in ability a large proportion of the public men in the country and whose character places him among the foremost humanitarians of the age. Herewith is Mr. Armstrong's letter to Senator Connally.*

Fort Worth, Texas, December 4.

Hon. Tom Connally,  
Senate Building,  
Washington, D. C.

My dear Senator Connally:

I hope you will pardon my again writing you about the tariff bill. I would not do so except that I believe that you want to serve the best interests of your country regardless of party and other considerations, and that you have some respect for my statements and views.

The recent collapse of the stock market makes it imperative that Congress enact a tariff measure that will afford adequate protection to industry; otherwise, there will inevitably be a depression similar to that following the collapse of 1920 and of 1907. If Congress does not do so the Senate coalitionists and the Democratic party will be justly held responsible for the consequences. The President is taking intelligent steps to soften the blow, but there is nothing he can do that will avert it, in the absence of adequate protection.

The irony of the situation is that for the pretended purpose of affording the farmer relief and of equalizing his rates with those of industry, you and your colleagues propose to impair his home market and thereby depreciate the value of his products. To the extent that you do this, to the extent that you create unemployment, and to the extent that you impair the general prosperity of the country, you necessarily injure the farmer.

The Democratic platform prescribes the true test for protection but the Democratic senators have up to this time ignored it. Instead of applying this test you apply the test of whether or not the big corporations of an industry have been profitable. If they have been you refuse to increase the rates without considering the difference in the cost of production due to the difference in wages.

The Senate refused to increase the duty on pig iron despite the fact that the American manufacturer

must compete with the wages of 15 cents per day in India and despite the fact that most of the small blast furnaces are closed and will remain so as long as the present tariff continues, upon the mere ground that the U. S. Steel Corporation and other big steel companies had good earnings during last year. It is my information that you have not yet acted upon Senator Heflin's amendment calling for the increase of duty on concrete reinforcement bars that my company needs so desperately, but I presume it will meet with the same fate for the same reason.

If the duty on these two items alone should be increased in order to cover the difference in the cost of manufacture, due to the difference in wages, it would add thousands of men to the payrolls and improve the farmers' market accordingly. My own company, as weak as it is, would double its payroll within six months. It is the American manufacturer and farmer and wage earner who will lift the settling cloud of depression and restore prosperity, and not the international banker and industrialist.

The worst of it is that some members of the Senate are attempting to create public sentiment that will justify their repudiation of both the Democratic and Republican platforms through the inquisition of the Caraway committee. I do not believe that you or any other right-thinking man will justify the police court methods and the partizan and unfair investigation of this committee.

I think you know, as I do, that Jno. H. Kirby is above reproach; that he has no personal interest in the tariff; and that he would not countenance an organization that is dishonestly operated or managed. He is the outstanding citizen of Texas, and the greatest and best man I have ever known. He is actuated by no motive other than that of public service and the discharge of the duties of good citizenship as he understands them to be.

They have seized Mr. Arnold's private papers, baited and brow-beat him, and put him through the third degree for a period of nine days as if he were a common criminal engaged in a criminal enterprise. With it all they have developed the startling facts that Mr. Arnold's organizations are supported by popular subscription and not by selfish in-

terests; that he and some of his employees are paid fair but not extravagant salaries, and that one of his employees wrote him a letter suggesting the nomination of negro congressmen in certain congressional districts for certain purposes.

I have known J. A. Arnold rather intimately for more than 30 years and can vouch for the fact that he is honest and honorable; he is a man of unusual energy and ability, and would have made a success at any undertaking; he chose this character of work because he liked it and believed in it.

I am persuaded that this vicious attack has been made on him because he has made the influence of his organization felt. I trust that I may say without offense that if the economic interests of the South were more truly represented by Southern Congressmen there would be no occasion for the labors of Messrs. Kirby and Arnold, and the existence of the Southern Tariff Association.

They may throw sand in the public eye with this sort of a dust storm for a little while, but sooner or later the public will soberly inquire why all this effort to destroy Arnold and the Southern Tariff Association. This dust screen will be a poor excuse to offer for the repudiation of the Democratic platform and a still poorer one for the bread-line that will likely follow the failure of Congress to protect industry against cheap foreign labor.

I have been a Democrat all of my life and still claim to be one despite the fact that I voted for the Hoover electors in the last election; but if the Democratic party means again to adopt the shibboleth of the "cheap cost of living," if it is to be the party of the international bankers and industrialists, if it is to be a free trade party advocating cheap prices and wages, then I must part company with it; but before doing so I mean to make an effort here in Texas to revive the tariff policies and principles of Jackson and Jefferson, and to repudiate those of Shouse and Tammany Hall.

I hope you will not object to the publication of this letter.

Your friend,

GEO. W. ARMSTRONG.

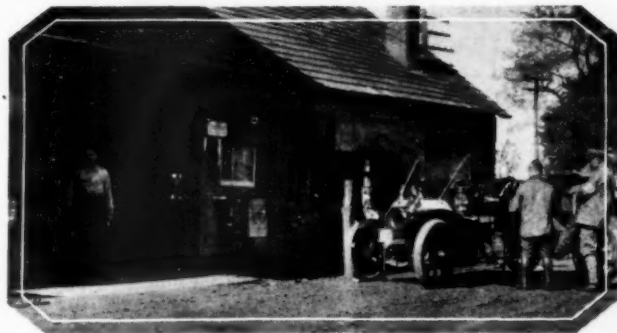
### Three Virginia Utilities to Expend \$11,000,000

Richmond, Va.—Recent announcements by three utilities companies operating in Virginia outline plans for the total expenditure of approximately \$11,000,000 in the Richmond district during 1930. The Virginia Electric and Power Company, of this city, plans the expenditure of \$6,000,000 for new construction and renewals. An expenditure of \$1,000,000 is planned by the Richmond, Fredericksburg and Potomac Railroad Company for new construction next year, including a \$100,000 warehouse here, and a \$3,600,000 expenditure by the Chesapeake and Potomac Telephone Company of Virginia.



# University Courses for Service Station Employees

Just a few years ago the village smith's task was to service both horse-drawn vehicles and gasoline buggies.



Today, it is estimated that there are 95,000 automobile service stations and repair shops on the country's roads.

NOT only are the larger oil and gasoline manufacturing and distributing companies endeavoring to build business by the establishment of de luxe type service stations, with every facility for the needs of the motoring public, but they are going a step further in the training of filling station employees through university extension courses, for service of the public in a more competent and agreeable manner. Arrangements were recently completed whereby what is described as the most extensive training course ever attempted in behalf of employees of a single industry will be made available to approximately 50,000 employees of the Tide Water Oil Co., New York. A similar course is being prepared for the Cities Service Co., principal negotiations being carried on with the Crew Levick Co., a subsidiary. A university training course was recently concluded for employees of the Wadhams Oil Co., Milwaukee, Wis.

Heretofore, men at the service stations have been considered perhaps as minor cogs in the wheel. Now, it is generally conceded that these employees are a most important link in the petroleum-products-marketing chain. These men contact with the public which buys and consumes the products and thereby they pave the way for the steady flow of crude oil from the wells through refineries to the public. For years the oil companies have depended chiefly on advertising, on large signs at the respective stations and on elaborately equipped stations erected on costly sites as business builders. They have given little thought, apparently, to the influence on the motoring public of the treatment by these attendants. Thus, inattentive and discourteous men at service stations have caused a considerable business loss to the companies and have helped to forfeit the confidence of the public.

Few people owning automobiles know the proper grade of oil for use in the particular car they are driving; selection of this must take into account the make of car, type of engine and character of its construction, also the condition of the car. Therefore, a heavy toll is exacted annually, due to improper lubrication of motor vehicles. The average motorist

By  
CARROLL E. WILLIAMS

looks after the greasing of his car in a haphazard manner. Often there must be urgent need manifested before he sees the necessity and economy of regularly and thoroughly greasing the automobile. The training course for filling station employees includes not only sales methods, but has as a principal purpose the training of men to render intelligent counsel and service to the motorist. In brief these men are trained to know lubricants, their proper use and adaptation; they are trained to know lubrication systems in different makes of cars. In reality they should become, once they have completed the set course, automobile lubricating engineers.

The course prepared for the Tide Water employees will be embodied in a series of textbooks backed by practical teaching, the student with the guidance of his instructors to solve practical everyday problems. A diploma will be awarded, on satisfactory completion of the course, and any service station employee with such a diploma will be regarded as fitted to deal intelligently with problems of lubricating and fueling modern high compression automobile engines, and at the same time he should "have a clear conception of the difference between simply selling oil and gasoline and rendering a genuine and essential service to the public. The course is designed to stimulate mental alertness of the station operator, give him a new sense of responsibility to the consumer of the company's products, and increase his sales ability and earning power." The rapid development of high compression motors has made of major importance the intelligent handling of motor fuels and lubricants.

The general object in providing this training is explained in an announcement regarding the course instituted for the

Wadhams Oil Co., reading in part as follows:

"The number of service stations competing for the car owner's business has increased very rapidly in the past few years; much more rapidly than the increase in the number of car owners. Under such conditions, the business of the car owner is bound to

go to the service station offering him the best service, along with high quality products. The only way you can build up a volume of sales at your station is to give the car owner the kind of service that will bring him back for repeat business and that will eventually make a regular customer out of him.

"In the second place, the kind of service you give, the kind of impression you make on your customers, determines his entire impression of the company. You and your fellow workers at the service station are usually the only persons representing Wadhams Oil Co. that the customer ever sees. To him you are the impersonation of the entire company."

Territory served by the Wadhams organization had more service stations than were required and average sales would not suffice. Therefore, the company decided to institute other than ordinary selling methods to back up its products, reputation and advertising program. It determined to train its employees in sales method and servicing through correspondence. To stimulate interest in the course the company decided that while the training should not cost individuals any money, it should not be taken as a gift, and each man was required to pay \$20 for his course, upon completion of which the \$20 was returned to the salesman and he was allowed to keep the set of books furnished by the university. Encouraged each week by the home office, 92 per cent of the salesmen entering the course completed it. Examination papers were graded and returned to the company so it could see the effort and standing of each man.

It is said that the effect of training on the morale of the men has been very pronounced. They have a real responsibility; a large investment is in their care; and the type of man who should be trusted with this responsibility heretofore has too often resented the position he is placed in, that of a servant to a fickle public. The training course, it is said, has placed a different interpretation on public service and on the station operator's relation to the motorist.

# Thoughts on the Socialization of Labor in Mexico

New Labor Code Before Mexican Congress, If Ever Enacted, Is Almost Certain to Be Profoundly Altered.

By COURTENAY DE KALB.

SINCE the days of that famously insincere reformer, Venustiano Carranza, Mexico has suffered from a bitter conflict of classes. He was responsible for what has been aptly called the Almodrote de Querétaro. An almodrote is a good Spanish word, derived from the Latin, signifying a confused mixture of all manner of things, some of which may be good and others bad. In this case it refers to the Mexican Constitution which was concocted at Querétaro, after Carranza had fought through a revolution in defense of the Constitution of 1857 that had been drawn under the auspices of Benito Juárez.

The famous labor clause, No. 123, of the Constitution of Querétaro, the document under which Mexico is still struggling to harmonize the various discordant elements of the country, was said to have been written by an American "parlor bolshevik," Lincoln Steffens, evidently under the inspiration of Samuel P. Gompers, whose interest in organizing Mexican labor was extreme. The Magón brothers, always ardent radicals, were also active and willing tools. As labor was concentrated in the cities it was plainly to the interest of Carranza, who was no longer friendly to the United States, to offer a sop to the laborites from whom he could derive vociferous organized support, whereas the farm workers, or peones, being widely scattered, were not to be counted on as such an immediately available political resource.

This outline of the rise of the labor movement in Mexico is essential for Americans to know in order to approach the subject with an appreciation of the attitude of the present Government of Mexico. It must be remembered also that President P. Elias Calles, before the close of his term, broke definitely with Luis N. Morones, who had been his somewhat radical Minister of Industry, Commerce and Labor, and that the interim President Emilio Portes-Gil has more distinctly favored the people who have the real grievance, that is, the down-trodden farm workers. There were two groups of them, the state of each being equally hopeless. One group consisted of the peones on the great haciendas, where they were in virtual bondage in

spite of the Constitution of 1857 which had declared against such practices. The others were theoretically part owners of the land, under a village community system created by charters issued by Charles III of Spain. Notwithstanding their technical rights, or "derechos," which entitled all of them to equal privileges in the community, the more aggressive of these, under the established principle that any member of the community could fence as much as he actually could cultivate within the limits of the lands set apart by the charter, which invariably were large, monopolized everything, and the rest of the villagers had no alternative but to serve the man who had thus become the head of the group. These then became reduced to a condition of abject poverty. This system, with all the attendant hardships, was set forth by the author of this article, with full details, in a contribution to *The Nation*, New York, May 24, 1906, written from Fuerte in the State of Sinaloa, Mexico.

Nevertheless, there stood the labor clause of the Constitution of Querétaro unfulfilled after more than ten years of agitation. The laborites had assumed that the Constitution was written for them, and their German and Russian friends, before and after, had so dominated the situation as to encourage that conviction. They were, however, very much in the minority compared to the ranch workers, whose main difficulty lay in the defect of organization. The case was much the same as in Russia, where a small minority of well organized soviets is attempting to dictate to the great mass of the Russian people as represented by the peasants. Being organized, this minority of workers in Mexico is able to produce a great deal of noise, and to keep up what seems like a formidable political agitation. Accordingly President Portes-Gil has undertaken to make good the promise in the labor clause of the Constitution of Querétaro, and has prepared a project of law in the form of a Labor Code, which at the present moment is undergoing scrutiny by the Mexican Congress. It is hardly worth while to discuss the proposed legislation in much detail in view of the fact that already the Congress has made profound

alterations in the Code. The interesting thing is that it is proposed to elevate it to the dignity of a code. Hitherto there have been only three codes, viz., the Civil Code, the Commercial Code, and the Penal Code. The prime advantage in a code is that it is lifted out of reach of legislation by the several States. That means that one can ascertain definitely at all times exactly what the law is. As President Portes-Gil says, in his foreword to the proposed Labor Code, "It must be remembered that a code is an organic whole, and that each one of its dispositions exists by virtue of the rest, and is related to the entire Code."

President Portes-Gil is a man of high character, and he will honestly endeavor to develop a workable piece of legislation. He evidently counts heavily upon dealing with labor collectively, that is, through the recognition of labor syndicates, and the collective contract. This does not mean that the individual contract is not to be recognized. Full provision is made for contracts of that nature, but he has taken the labor leaders at their word, and the projected code lays great stress on syndicalization. As a natural corollary to that conception of the place of labor in the world comes the ideal of profit sharing, legalized and definite. In the words of Portes-Gil, "If human labor creates by producing, then the labor contract is a contract of collaboration or association of the worker and the employer." In another place he refers to the length of time it has taken, in spite of "the daily tragedy of man," to arrive at the conception of the contract of labor as being the most important thing in life. The syndicalist doctrine involves the conception that each trained worker in any trade is the equal of any other, which of course is fundamentally incorrect. Otherwise the syndicalist contract would have no claim to recognition, and that is its fatal objection. The tendency constantly is toward what Prof. Adolfo G. Posada, renowned sociologist of the University of Madrid, terms the "mechanization" of industrial technique, against which, he says, we must be eternally on our guard. The effort to recognize it as a fact legally, is, perhaps, the soundest objection to this proposed Mexican Labor Code. It is



improbable that, even if a labor code should finally be enacted, any such ideas in it would prevail.

It is singular that, as indicated before, the workers who most deserve sympathy receive the least, and even in the Code, as now written, there is less understanding of the actual conditions which should be met than was displayed by that champion of the rights of the peon, the illiterate but highly intelligent Gen. Zapata of Morelos. President Portes-Gil tells the truth when he says, "The condition of the rural workers throughout a great part of the Republic remains in a truly pitiable situation. The benefits of the Revolution have not reached them." This voices the view of a genuinely compassionate man, who yet does not appear thoroughly to understand the needs of the ranch worker. He seems to wish to establish by law privileges that the peon

always has enjoyed gratuitously under generous landlords, such as free pasturage for a few cattle, the right to add to the resources of his larder by hunting and fishing, and to secure part-time payment in the event of sickness. These things would only lead to intolerable abuses. You cannot find a substitute in law for what ought to flow from a generous spirit.

Finally, the test of the Code, as of any law, is found in its prescription of penalties for infraction. As this has to do with contracts, and as there must be two parties to any contract, there should be penalties for infraction—to hold both parties up to the line. Here the framers of the Code encountered difficulty. It was a difficulty inherent in the situation of the laborer. While many of them possess means from which fines could be

collected, essentially the worker is without funds, and could never pay. Imprisonment in lieu of fine is contrary to ennobled spirit of this age. It would seem, however, that by the collective contract it would be possible for the syndicate to stand sponsor for the correct fulfillment of the bargain made on behalf of its members. As the Code stands it would appear to be incapable of operation, and we believe that the Mexican Supreme Court would so find when the first case under the new law should be brought before it. That Court has had a long record of intelligent and honorable decisions, which has been unfaltering even through the most trying periods of political stress.

The Labor Code, however, is still inchoate, and if ever finally enacted is certain to undergo profound alterations.

## Avoiding Water Shortage

18-Foot Cast Iron Pipe Plays Leading Part in a Texas Community.

Use of long length cast-iron pipe recently contributed materially in averting at Turkey, Texas, a situation which might have resulted in the inconveniences of a water shortage. A rapidly diminishing water supply made it imperative for the town to drill wells and lay pipe to the new source before a drought occurred.

Contract was accordingly let for drilling of wells to the southwest of the town. Simultaneously a preliminary survey for the pipeline was being made. By the time the wells were drilled and tested for quantity and quality the survey was completed, a resulting decision being selection of deLavaud centrifugal pipe in 18-foot lengths to facilitate laying of the line. Within five days after the final plans were completed the pipe was delivered by the United States Pipe and Foundry Co., Burlington, N. J., from whom it was ordered, and distributed along the route of the proposed line.

Anticipated difficulties in unloading and distributing the long length pipe due to necessity of employing local trucking contractors without special equipment for the purpose were not encountered. Unloading of the gondolas was by the ordinary "gin pole," the pipe being hauled to location on standard size trucks. Lowering of the lengths into the ditches was accomplished by slip ropes in the usual manner.

General contractors for the project were the Jordan-Hall Construction Co., Plainview, Texas. The McFadden Engineering Co., Amarillo, Texas, were the engineers.

### \$500,000 Hotel Contract

Florence, S. C.—Low bid to erect the proposed \$500,000 hotel here for the W. R. Barringer Hotel Co. has been submitted on revised plans by the John W. Hudson Co., Raleigh, N. C., and it is

understood that contract has been awarded this firm. The building will be 12 stories and basement, of reinforced concrete, steel, brick, tile, terra cotta and Indiana limestone, and will be equipped with three elevators, electric fans and radios in all rooms. It will contain 170 rooms, with stores on the ground floor. H. A. Underwood & Co., Raleigh, are the architects.

### \$2,835,000 Drainage Project

Houston, Tex.—The city engineering department recently completed plans for dredging, straightening and walling Buffalo Bayou between the Sabine street river bridge and Main street viaduct, at a cost of \$2,835,000. Channel changes are expected to cost \$2,500,000, while incidental bridge construction and elevation will involve an estimated expenditure of \$245,000. These figures do not include right-of-way costs. Construction will be divided into eight sections aggregating 4900 feet. The project is designed to prevent such flood conditions as occurred last spring.



Handling Long-Length Pipe Expeditiously

Ordinary equipment successfully used for unloading and distribution.

# The Hip-Pocket Flask and Drinking by Young People in Strong Evidence in a Canadian Province

By RUSSELL BRADLEY JONES, D. D., Baltimore, Md.

[Recently Rev. Russell Bradley Jones, D. D., pastor of the University Baptist Church of Baltimore, spent several weeks in the province of Alberta, Canada. In a letter to the editor of the MANUFACTURERS RECORD he referred to the distress of the people of that province at the increase of the hip-pocket flask custom and the drinking by young people who were growing up in that part of Canada where the Government controls the liquor selling stores.

In reply to a request for further views in regard to the situation there, he wrote for the MANUFACTURERS RECORD the following interesting statement, based on a careful study of the whole situation, showing how Government control of the liquor business in Alberta has utterly failed to accomplish any good, but that on the contrary it has increased the drinking habit, increased the number of drunkards, and increased the bootlegging business in that section.—Editor MANUFACTURERS RECORD.]

I returned not long ago from a six-weeks' vacation in western Canada. The greater part of the time was spent in the province of Alberta, and while there I tried to learn some of the facts relating to that province's method of dealing with the manufacture and sale of alcoholic beverages. As you know, Alberta has government control with Liquor Vendor Stores throughout the province selling strong drink in any quantity to permit holders. There is also the beer room in almost all the hotels over the province. The opponents of the national prohibition laws of the United States have been strong in their advocacy of this Canadian system as the solution of our problems. The facts, however, prove beyond a doubt that this system is far from ideal and is inferior to what we have.

After having prohibition for about eight years, Alberta changed in 1924 to the present system. We Americans have often been told that this change was because of the failure of prohibition and that it was a change for the better. As a matter of fact, it was not a change for the better, as most any respectable citizen of Alberta will tell you. There seems to have been a combination of causes which brought about the change. One of the greatest was the abuse of liquor prescription privileges by the medical profession. Another was the influx of new Canadians from the old countries with their insistence that they should have their liquor as they had had it back home. The society people joined with them and helped defeat the middle and better class when it came to a vote. Still another cause was the activity and money spent by the big liquor interests. A prominent prohibitionist of Alberta made the charge publicly that money had defeated prohibition, and I am told that this charge was not challenged.

Incompetence on the part of prohibition enforcement officers also played its part. But in no sense can it be said that the

change came because prohibition was a bad thing. Many, with whom I talked, said without hesitation that conditions were far better under prohibition. One evidence that this is true is the fact that the total jail population of Alberta for 1928 was 2413 as compared with 1111 in 1923, the last year of prohibition. Stories of families brought to dire need by drink are common. The best people are far from satisfied and sincerely hope that the United States will not make the mistake that Alberta has made.

The Hon. J. E. Brownlee, premier of Alberta, in a speech this year said, "I am frankly of the opinion that sentiment is swinging back toward a tightening up of liquor legislation and particularly is it growing against the beer parlor as it exists today." The United Farmers of Alberta at their convention recently held passed the following resolution: "Resolved, that the sale of beer by the glass is a detriment to the present social order, therefore we call on the Government to abolish same." As the result of 44 local option plebiscites in the province between 1925 and March, 1929, 27 communities went dry and 16 went wet.

The wet press of America is telling us that a change to government control, such as Canadian provinces have, will do away with moonshining and bootlegging. This result certainly has not followed in Alberta. In the last available report of the Alberta Liquor Control Board, special attention is devoted to "flavoring extracts and essences," "canned heat" and "illicit liquor." And on pages 9 and 10, the cat is let out of the bag in the following statement: "The Law Enforcement Officers of the Board have continued their efforts to suppress by all means in their power, the manufacture and sale of moonshine. It has long been recognized that the suppression of the manufacture of illicit liquor is the function of the Federal Government; and the Department of National Revenue (Excise

Branch) has recently established in Alberta an enlarged organization to deal with this work." In other words, after five years of liquor control, the Dominion government was forced to come to the aid of the province with a larger enforcement body to stamp out moonshine and bootlegging.

Under the Alberta laws, when a man becomes a nuisance to his family and neighbors (and is so reported), his permit to buy liquor is withdrawn. One of the largest lists of interdictions ever published came out August 15, 1929. But these men and women on the list have already become confirmed drunkards before they were interdicted. And only a minority of the drunkards are on the list, for obviously a family or neighbors will endure much before they start steps to send the offender to jail. The last report of the Liquor Control Board, referred to above, reveals that of the 675 Orders of Interdiction received by the Board that year, 396 of the persons named did not hold a permit. Where did they get the stuff on which they became drunkards and menaces to the community? Either they became drunkards by drinking beer sold in the beer parlors where no permit is required (and this has happened) or by buying or making moonshine. The government prints a monthly list of the names and addresses of persons interdicted and puts this list into the hands of the managers of the vendor stores and the beer parlors. Any one can get the list. And so the bootlegger has a preferred list of thirsty customers furnished him by the government once each month. Any one can easily see what that leads to. Sometimes the bootlegger buys his goods from the Government Vendor Stores, but the fact that moonshine can be made much cheaper tempts many, and liquor control has not freed the province of bad liquor.

American wets also claim that the best way to destroy drinking, hip-flasks and



wild parties among the young people is to repeal the national prohibition laws and adopt Government Liquor Control. Again, as in the other cases cited, the prophesied result has not come about in Alberta. One sees as many, if not more, liquor flasks offered for sale in Canadian stores as one sees in American stores. One hears, on the lips of young people themselves, the statement that a party is almost impossible without something to drink. Not all, or the best, young people in Canada drink, just as they do not in the United States. But youthful drinking and lawlessness is an acute problem in Alberta. Upon inquiry, I found that conditions were much the same, and probably worse, under government control than they had been under prohibition. Of this, all are certain: the repeal of prohibition and the adoption of liquor control has not solved this problem. And it has not solved the problem in spite of the fact that minors are not given liquor permits, nor are they supposed to go into beer parlors.

A few days before I left Edmonton, the capital of the province of Alberta, there appeared an editorial in the Edmonton Bulletin on the Liquor Control Board's Report. The only thing the paper found to commend in the report was the increased revenue received by the government from increased liquor sales. Nothing was said about the increased expenditures of the government because of increased crime and suffering as the result of the traffic.

America does not need Canada's laws; our prohibition laws are good and adequate. What we need is a greater respect for authority and decency and an effective method of law enforcement.

### \$400,000 Educational Building

Washington, D. C.—The National Education Association, of which H. A. Allen is business manager, will invite bids in the near future for erecting a \$400,000 administration building at M and 16th streets. The structure will be 7 stories, of brick and steel, and its construction will involve slight changes to the present building of the Association. Plans are being prepared by the Frank Irving Cooper Corporation, Boston, Mass.

### Citrus Fruit Export Investigation

West Palm Beach, Fla.—Making a state-wide survey on which the United States Shipping Board may possibly take action to render further assistance to Florida in the nature of steamship service, Fred G. Freiser, director of traffic for the Board, and John McCart, assistant, recently visited this city in connection with an investigation of citrus fruit exports to European countries.

## Taking Politics Out of the Florida Everglades

By F. JACK LACEY, Tallahassee.

Drainage of the Florida Everglades and the work of flood control are no longer political questions, but economic and scientific problems. Three factors are working toward a solution, each based on one of the two foundations. Backing the present plans is comprehensive legislative authority. Engineers who have facts on which to base their work are going about their duties in a business-like and scientific manner, unfettered by the restrictions placed by political influence.

One of the important moves of the present administration, and one which is a part of the legislative act, is the creation of drainage and flood control boards composed of men who reside at the "seat of action" and who for years have had actual contact with the problem. These men, because they have observed the several disasters which have occurred in the Everglades, know what is needed and this knowledge is made a part of the present accumulation of facts and is given the official members of the two boards—the members of the Governor's cabinet.

Governor Doyle Carlton is chairman of both boards and was authorized under act of the legislature to appoint local members. Contact with every phase of the problem has been made by all members, both official and local. Practical, technical and legislative methods are combined and real work is being accomplished under a definite plan of procedure. Governor Carlton made the following statement for the MANUFACTURERS RECORD regarding the Everglades project as it is now presented:

"The basis of the whole idea is found in the work of the last legislature which authorized the appointment of Flood Control and Drainage Boards, composed of the cabinet and of citizens of the affected areas. The purpose of these composite boards is to give the right of local representation in every project towards development of this area. Results of such a plan are already manifest as it gives the people who pay the money, renewed faith in the assurance of successful reclamation.

"The local drainage board has to do solely with the drainage of the various areas, subject to approval of the entire board. The Flood Control Board has to do with water control and navigation. This will, in all probability, call for construction of dykes around the affected portions and also the development of canal and other water courses that will at once serve the purpose of drainage and navigation; subject, of course, to the plans of engineers who must solve the problem on a scientific basis. It is

no longer a political but an economic and scientific question. It is also recommended that it is a national as well as a state problem and there is hope that the Federal Government will carry a share of flood control expense. Drainage problems, are, of course, problems to be financed by the state.

"In meeting this question squarely Florida naturally has the primary objective of bringing protection to the citizens of the Everglades area. But in disposing of the danger, it is also converting an otherwise wasted area into a section of productive wealth and beauty. Solution of this problem will contribute to agriculture, navigation and industry. The soil of this section is rich beyond estimation and drainage will make it possible to produce at all seasons of the year and add to Florida's agricultural wealth. Navigation will be aided by the system of water canals which will be constructed. On every hand will be seen progress where before was waste and swamp land."

Other than the Governor's cabinet members, and the chief executive as chairman, the boards are composed of the following local citizens: Drainage: Marcus A. Milam, Miami; Ralph A. Horton, Fort Lauderdale; W. H. Lair, Pahokee, and D. Graham Copeland, Okeechobee. Flood Control: Glenn H. Curtiss, Hialeah; Howard Selby, West Palm Beach; Russell G. Snow, Fort Lauderdale; F. Deane Duff, Clewiston, and William Griffiths, Okeechobee.

### \$5,000,000 West Virginia Capitol

The Capitol Building Commission, Bonner H. Hill, secretary, Charleston, W. Va., expects to be ready to take bids about February or March for erecting the main unit of the new State Capitol, for which plans and specifications are being prepared by Cass Gilbert, New York architect. This structure will be 536 by 106 feet, with two wings 60 by 94 feet, a dome 266 feet high, and a rotunda 80 feet in diameter. The building will contain about 6,000,000 cubic feet. It is to cost not more than \$5,000,000.

### Bids on \$300,000 Courthouse

Midland, Tex.—Bids will be opened January 8 by Midland County, M. R. Hill, judge, for a new \$300,000 courthouse here. Separate bids will be received on plumbing, heating, wiring, electrical fixtures, movable wood furniture, court room furniture, steel furniture and equipment, elevator and jail equipment. Voelcker & Dixon, Wichita Falls, Tex., are the architects.

## LETTERS FROM OUR READERS

### Local Architects, Engineers and Contractors Should Have Opportunity for Employment in Federal Building Program

Consolidated Indemnity and Insurance Company,  
New York.

P. J. Hennessey, General Agent.  
San Antonio, Texas.

*Editor Manufacturers Record:*

Your plan to establish a Department of Public Works and Maintenance is excellent.

Part of the last few years of my active service as a Regular Army officer before my retirement in September I spent coordinating, under the general supervision of the Director of the Bureau of the Budget, the interdepartmental activities of the executive branch of the Federal Government in five states of the Southwest. I found matters affecting realty sadly lacked proper coordination, resulting in waste and inefficiency.

A department as advocated should be charged only with the formation of policies leaving the details of administration to district field officers. Reputable local architects and engineers familiar with local construction conditions should be employed as occasion requires. As a result of the adoption of such a plan there would be avoided further construction of architectural monstrosities on the part of the Federal Government and there would be secured properly designed buildings, architecturally beautiful and suitable to local climatic and terrain conditions. At the same time there would be given to the local architect and engineer an opportunity for employment which he does not now have under a system of highly centralized control of realty in the various departments in Washington.

P. J. HENNESSEY.

### Chain Stores Ruining Home Merchant

Baker Realty Company  
Waynesboro, Ga.

*Editor Manufacturers Record:*

Noticing your editorial, "Chain Stores Fighting to Win Public Favor," please let me state that I am glad to note that public favor is looking on the chain stores with scorn. They are detrimental to a community, they are ruining the home merchant, both in morale and financially.

From a financial standpoint, they are draining the country. Their sales are deposited daily in a local bank and are remitted to their Northern or Eastern home offices either every day or weekly. There is absolutely no credit accommo-

dation from the chain store for a local citizen. Those who are in the habit of trading with the chain stores in order to, as they think, save a few cents on some article, could not get one cent's worth of accommodation from them.

The local merchant who owned his home and probably his business house was a good citizen. He was respected in his community, he enjoyed a good business, but today, wherever there are chain stores, they have practically put the local merchant out of business and the communities are losing good citizens.

Chain stores pay their help as small a wage as possible, thus limiting the buying power of many people. This also is detrimental to a community.

C. E. BAKER.

### A Plea for Governmental Attention to Flood Damage in North Carolina

Goldsboro, N. C.

*Editor Manufacturers Record:*

Not long ago you published an editorial entitled, "Empire Building on a Scale Worthy of the United States." This was extremely interesting and is well worth the reading of anybody interested in the work of our government.

But the people in my section of the country have just about as much to offer the United States as the people in other sections. For instance, North Carolina pays as much tax to the Federal Government as any state in the Union, with one or two exceptions. So we feel we are entitled to a small percentage of this in our rivers and inland waterways.

Some of our rivers used to be navigable, yet they are not any more. Since our tax money is being used for the Mississippi River, the Great Lakes, and the Boulder Dam problem, and various and sundry other things, we feel that a little could be spent on the Neuse River of North Carolina, as well as the Pee Dee of South Carolina and a few other rivers in the Southern states. We are interested in the further advancement of the great West, but feel that the old maxim, "Charity begins at home," would work to good advantage in this case of Empire Building on a Scale Worthy of the United States. And we feel that our Government should first come down here where there are several times more people than there are in the West, per square mile.

In North Carolina we have a river known as the Neuse, extending from the central part of the state to the ocean. It is flooded each year, causing millions of dollars worth of property damage to farm lands, growing crops, buildings, etc. Years ago the Neuse was navigable, but in recent years it has become filled up, and at this time is navigable only for a distance of approximately 50 miles.

Now our Government is talking about

spending millions and millions of dollars in the Boulder Dam problem, the handling of the lower Mississippi River, working out the upper tributaries of the Mississippi, and the Great Lakes and the proposed St. Lawrence Canal. These developments are worthy of the United States Government, but the people down in this part of the country feel it would require only a very small outlay in comparison to other government expenditures to give relief which would amount to a great deal to the state.

The damage in North Carolina from flooded rivers amounts to millions of dollars annually, and at this time a survey is being made by individuals as well as government men, trying to work out some relief. But the people in North Carolina, particularly in the Eastern section, would rather see some action, not only on paper, but actual relief work. We know there are millions of dollars taken from the Southern farmer annually by flood water that could be used to relieve the farm situation.

Years ago, before the standing timber was destroyed on the river banks, the Neuse did not flood very often. But in recent years there have been from one to three floods each crop year. The government has done nothing in years to relieve the situation. And we feel the Southeast is entitled to consideration as well as other sections. Because we are all Democrats is no reason why we shouldn't have some consideration when it comes to expenditure of Government money.

I am using the Neuse River as one of the many rivers that need some relief; there are also the Tar, the Pee Dee, the Cape Fear and any number of others I could mention in North Carolina that are in desperate need of relief from the present flood condition. Thousands of dollars wasted monthly would find producing property if it were not for the floods.

I spent some time in the Mississippi Valley working as an engineer for the government on the river, and I am sure that in North Carolina I have seen as much damage as I ever saw in the valley per square mile, and it would possibly pay the government ten times over for the cost of relief work to reclaim land that is lost to commercial powers now, thereby having a very low tax valuation.

ELLIS P. LUPTON,  
Civil Engineer.

### Does Not Want to Miss an Issue

East Chicago, Ind.

*Editor Manufacturers Record:*

I am attaching my check for \$10 for renewal of subscription. I would rather drop all other periodicals than to miss the MANUFACTURERS RECORD, for I enjoy every issue. There is always something of interest, and above all, I have come to know the South as that part of the country which some day will prove to be the backbone of the good old U. S. A.

WILLIAM E. JEWELL.



# IRON, STEEL AND METAL MARKET

## Steel Production Now Around 60 Per Cent

Pittsburgh, December 16—[Special.]—Following recent decreases in the volume of buying, steel production has decreased further and is now at about 60 per cent of capacity, probably marking the low point on this decline except for the holidays, when closing of departments will average longer than usual. Jobbers and manufacturing consumers are curtailing their stocks so rigidly, against January 1 inventories, that heavier buying is practically assured for shipment after that date, while there should also be seasonal increase in actual consumption.

According to official reports, steel ingot production was 85.21 per cent of capacity in October and 68.90 per cent in November. The rate October 1 was about 90 per cent, with say ten points drop during October and 20 points further drop since then.

Unfilled obligations of the Steel Corporation increased 38,783 tons during November, against 183,981 tons increase in October. About a million tons of rails were ordered during the two months, of which the Steel Corporation booked more than half, while its rail shipments were light, although heavy now. Thus rails accounted for all the unfilled tonnage increase with something to spare.

Steel producers report that their customers are in a more equable frame of mind now, having less fear of the future than they had shortly after the stock market crashes, and consuming prospects are reported as fairly good on the whole. In rails, fabricated structural steel, freight cars and agricultural implements the situation is very good in the main. In automobiles the situation is very poor, while other lines of steel consumption rank between.

Atlantic Coast Line has ordered 23,000 tons of rails from the Bethlehem Steel Company, to be rolled at Sparrows Point, Baltimore. Elgin, Joliet & Eastern has ordered 5100 tons. Rail orders reported on the present buying movement now total 1,400,000 tons, including only such orders as have been identified by name of buyer. There has been some other buying and several roads are still to be heard from. The roads that have bought have ordered fully 15 per cent larger tonnages, on an average, than last year, and they have bought earlier, whereby rail production is running heavier than usual in December.

No important freight car buying occurred in the week but there is still talk

of much business in prospect. Orders reported since October 1 total fully 33,000 cars or considerably more than production in the same time.

The finished steel price structure has been holding very well. One might say that despite the light demand while another might say that it is on account of it, there being not enough business, when orders are small individually being for prompt shipment, to stir up competition, but perhaps neither reference would go to the root of the matter. In the period of very heavy demand there were no advances of any moment and thus mills feel there is nothing to come off, while with light production their earnings will be greatly reduced, both on account of the tonnage and by unit costs being higher with poorer distribution of overhead. With the possible or probable exception of the automobile industry there seems to be no desire on the part of steel buyers that prices should be lower.

Occasional reports appear of increased automobile activity, but the industry was so nearly inactive that relative increases can occur without really amounting to much, and the common view is that automobile production will be decidedly light in the early months of the new year.

The Pittsburgh district scrap market shows a steadier condition, prices being no lower while it is said there is a better tone. In the Chicago district the Steel Corporation has brought a round tonnage of heavy melting steel at \$13, presumably believing this is bottom. Detroit, New England and Eastern Pennsylvania report easier scrap markets.

## Steady Reduction in Pig Iron Surplus

Birmingham, Ala., December 16—[Special.]—Surplus stock of pig iron in the South has been materially reduced since the lower freight rates have been in effect on the railroads and steamship lines to the East, and along the Atlantic coast and the all-rail rates to the middle West. Most of the business under way in the home territory is of the hand-to-mouth trade and is easing off as the holiday season comes on and inventory time appears. There are several smaller industries, however, which will operate steadily right up to Christmas time and these shops have very little or no iron to speak of on yards and depend considerably on active deliveries. Quotations are firm on this year's business yet at \$14.50, No. 2 foundry, base.

The largest melting interest of the district is now experiencing a very sluggish

trade. However, specifications are in sight which give hope of heavy requirements. A policy has been adopted, it would appear, not to produce stock until the demand opens up, the opinion being held to that there will be as healthy production as demand at any and all times. This industry is in cast iron pressure pipe. At the same time, the statement is made that development in this industry during the past few years has been pronounced and that among other things the capacity has been given material attention. Quotations have swayed but little for some time, the mid-winter base being in effect. Indication is that by the middle of January conditions will be seen changing for the better. The American Cast Iron Pipe Company, rather than disturb its labor force, has upwards of 200 men working about the yards, doing such work as can be planned so that labor earnings may continue. Few lettings have been reported recently.

Stove manufacturers are confident of steady business the coming year and production will not be disturbed. Meeting of the Southern Association of Stove Manufacturers held in Birmingham last week brought out the information that future prospects are very bright and that the trade will have a good year.

Other interests requiring iron in daily operation are reporting active prospects in sight. Machine shops and foundries are doing only fairly well; one of the larger plants is very busy, having gone to the far corners of the country in its search for business.

Steel trade is improving slightly, though production has not yet started in on a heavy scale. There will be brief cessation of operations for the holiday, some plants two and three days and others a week and one of the larger ones for a week to 10 days. Some betterments are still reported and these will be rushed when the work is started on. Nineteen out of the 23 open hearth furnaces are in operation in this district. Gulf States Steel Co. will lay up considerable tonnage on billets so that when the new blooming mills are being installed there will be no interruption on account of shortage of steel. The company is pushing work on the new blooming and plate mill and soon will give out contract for building a new sheet mill. Fabricating shops continue very active and will go into the new year with a steady line of business booked. Many contracts are being rushed.

The coke market is unchanged. But eight of the 1380 by-product coke ovens of the district are out of commission. Demand for domestic coke with cold

weather is noticeable. The old material market continues slow with quotations unchanged.

Pig iron and iron and steel scrap quotations are as follows:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.00 to \$14.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$14.50 to \$15.00; iron of 2.75 to 3.25 per cent silicon, \$15.00 to \$15.50; iron of 3.25 to 3.75 per cent silicon, \$15.50 to \$16.00.

#### OLD MATERIAL.

|                              |                    |
|------------------------------|--------------------|
| Old steel axles .....        | \$17.00 to \$18.00 |
| Old iron axles .....         | 17.00 to 18.00     |
| Old steel rails .....        | 13.00 to 14.00     |
| Heavy melting steel.....     | 10.50 to 13.50     |
| No. 1 cast.....              | 12.00 to 13.00     |
| Stove plate .....            | 11.00 to 12.00     |
| No. 1 railroad wrought....   | 10.00 to 11.00     |
| Old car wheels .....         | 11.00 to 12.00     |
| Old tramcar wheels .....     | 12.00 to 13.00     |
| Machine shop turnings.....   | 6.00 to 7.00       |
| Cast-iron borings .....      | 6.00 to 7.00       |
| Cast-iron borings (chem.)... | 13.00 to 13.50     |

### Metals Not Greatly Changed— Copper Sentiment Better and Zinc Weaker

New York, December 16—[Special.]—The better feeling in copper and the further weakness of zinc were the chief landmarks of the past week. Export copper sales reached over 2,500 tons on one day at the middle of the week, the best for a day in many weeks. There is a growing conviction apparently than prices are to be maintained at present levels. The price of zinc was marked down \$4 per ton on Wednesday to 5.80c per pound, East St. Louis, exactly one cent per pound under the high water mark for the year, a complete reduction of \$20 per ton since the first of last month.

About the most that can be said for tin is that prices are highly erratic, fluctuating over wide margins day by day, with consumers content to be mere spectators of the parade of prices. After quotations were nearly 2c per pound above the low for the year, a reaction set in for no apparent reason and quotations were on the toboggan. There is seldom any accounting for the behavior of tin, though reasons for rises and falls of other metals are usually evident.

The lead market pursued a steady course with business in fair volume and with sentiment cheerful. A few minor price concessions crept into the picture but they had no unsettling effect. More lead is being called for January shipment, though the bulk of sales is still for shipment this month.

Sentiment in the business and industrial world generally appears to be more confident. Unfilled orders of the United States Steel Corporation increased somewhat in November. Demand for the raw materials used by the automobile industry is considerably better and this includes lead, copper, tin, antimony and a few other metals such as aluminum, chromium, nickel and cadmium. Some

of the large eastern railroads have reaffirmed their intention of electrifying railroads and changing from steam to electrical motive power. The consumption of copper in such work will be enormous.

It has been estimated that half of the consumption of copper this year has been on the part of the public utility companies and electrical equipment manufacturers. It is in these lines that curtailment of consumption since the stock market break has been the least.

An encouraging development in the copper industry is the more tangible evidence that production is being curtailed. The Calumet & Hecla Company has cut output of smelted copper 25 per cent in the Michigan district. The Phelps Dodge Corporation, which operates in Arizona, is said to have shut down mines completely, partly because it is preparing to use its new refinery at El Paso after January 1. The leading Belgian producer in Africa has discharged many workmen and is preparing to cut production, having accumulated a large surplus of the red metal. Other companies are said to have curtailed though have made no official announcements.

The bid price of electrolytic copper dropped one pound sterling per ton on the London Metal Exchange, though the asked price continued the same and there is no evidence that sellers accepted the lower bids. Meanwhile copper futures have been sold on the National Metal Exchange at the lowest figures since trading was introduced there last spring, though prices improved later in the week.

The most flagrant case of overproduction among the metals is in slab zinc. During November surplus stocks increased nearly 6,000 tons to 63,061 tons, the largest since February, 1922, when they were 64,124 tons. At the end of July, 1921, they were 92,408 tons while at the close of November, 1925, they were but 6,922 tons. Moreover, world production is just as large comparatively speaking as in the United States. The International Zinc Cartel has recognized its past scheme for cutting production a failure and is at work drafting another plan by which it is hoped it can enforce much needed curtailment.

Meanwhile the price of zinc ore or concentrates has remained unchanged at \$38 per ton. While slab zinc was reduced \$20 per ton this fall, ore came down only \$6 per ton. Many ore producers claim they cannot make profits when the selling price is under \$42. Yet these complaints have been common all these years, and the zinc producers stay in business.

The tin industry still awaits signs of curtailment of production and meanwhile consumers are very wary. They no longer purchase on price reactions as

they had been in the custom of doing. Straits tin shipments for December are estimated at 11,000 tons, which is a bearish figure.

Copper statistics for November were highly unfavorable to the producers. Refined stocks increased 38,500 tons to nearly 127,000 tons, the highest since the end of 1924. Shipments at 106,860 tons, declined over 52,000 tons. Production of mine, blister and refined copper dropped about 7000 tons each.

### \$300,000,000 RAILROAD EXPENDITURE

#### Pennsylvania Railroad Plans Electrification of New York-Washington Line at Cost of \$100,000,000

Plans recently outlined by General W. W. Atterbury, president of the Pennsylvania Railroad, for the expansion of facilities of the company, will involve an estimated expenditure of \$300,000,000, of which approximately \$95,000,000 is expected to be expended in 1930. Among the larger expenditures are: Electrification of the lines from New York to Washington and from Philadelphia to Atglen, \$100,000,000; purchase of 310,000 tons of steel rails in 1930, \$21,000,000; signal extension program, \$16,000,000, and 100 mountain type locomotives, \$9,000,000. The railroad is now engaged on plans for a tunnel and electrification project in Baltimore to cost about \$22,000,000.

### \$1,325,000 Rail Order

Birmingham, Ala.—An order has been received by the Tennessee Coal, Iron & Railroad Co. from the Southern Pacific Company for 30,000 tons of steel rails costing about \$1,325,000 to be rolled at the Ensley plant near here during the early part of 1930. In addition, it is understood that the Southern Pacific has ordered 60,000 tons of rails from the Colorado Fuel & Iron Company, Denver, and 30,000 tons from the Bethlehem Steel Corporation, Bethlehem, Pa.

### 18-Mile Railroad Planned

Nettleton, Mo.—Contract for constructing an 18-mile single track rail line between Nettleton and Polo has been awarded to the Clinch-Mitchell Construction Co., Chicago, Ill., by the Chicago, Rock Island & Pacific Railway Company. This will be the second section of a new line from Coburn, Mo., to Kansas City, Mo.

Mayor J. Waddy Tate of Dallas, Tex., estimates that Dallas will expend more than \$20,000,000 for public and private improvements in 1930.



# AVIATION, AIRPORTS AND AIRWAYS

## Goodyear Blimp Entering Miami Hangar



The new municipal hangar at Miami, Fla., erected at a cost of \$50,000, will be used as quarters for the Defender, one of three Goodyear non-rigid airships to winter in the South. Two others, the Vigilant and the Puritan, are being sent to other Southern locations. An 80-acre golf course surrounding the field on which the Miami hangar is located is also available for landing purposes.

## Government Airplane Carrier

Washington, D. C.—The annual report of the Navy Bureau of Construction and Repair states that plans and specifications for a 14,000-ton airplane carrier have been completed and are ready for distribution to prospective bidders.

## Promoting Aviation in Arkansas

Little Rock, Ark.—Reviewing its activities during the past year and outlining work for 1930, the Arkansas Aircraft Commission, created by the 1927 Legislature, recently discussed plans for a system of 13 airways through Arkansas, six of which would intersect at Pine Bluff. Outside of Arkansas, the state system would connect with St. Louis, Joplin, Tulsa, Oklahoma City, Dallas, Shreveport, Jackson and other cities. The commission appointed Charles W. Holderbaum, of the State Highway Department, as airport engineer.

## To Manufacture Air Mail Postage Vending Machine

Washington, D. C.—The Air Mail Apparatus Corp., recently incorporated with a capital of \$1,000,000 by F. C. Roberts and associates of this city, will let con-

tracts for manufacture and assembly in large quantities of the various units required for an automatic air mail postage vending machine. Among the items needed are: Electric motors; glass; steel cases; electrical wiring; electric switches and bulbs; ball bearing roller castings; transparent colored glass; motion picture projector and film; air mail envelopes; maps, printed in colors; and sheet fibre. Assembling plants are proposed at Philadelphia, Baltimore, Memphis, Chicago, Detroit, Buffalo, Atlanta, Birmingham, Boston and other points.

## Glider Factory Changes Hands

In the belief that a widespread and enthusiastic interest in gliding should be fostered as important to the development of aviation, Edward S. Evans, president of the Detroit Aircraft Corporation, Detroit, Mich., announces the acquisition by his company of Gliders, Inc., Orion, Mich. The Detroit company plans to move the glider factory to its plant No. 4 at Detroit and continue the manufacture of gliders there. Gliders, Inc., will be known as a division of the Detroit Aircraft Corporation.

## Airport Work Starts in March

Tampa, Fla.—Following a conference with Mayor D. B. McKay, the aviation committee of the board of representatives outlined a tentative schedule for building the municipal airport, for which a bond issue of \$750,000 was recently voted. According to the schedule, plans and specifications will be submitted to the board for approval January 21; bids advertised soon thereafter, and contract awarded February 18. Construction is expected to begin March 1.

## Aerial Survey of Big Area

Fort Worth, Tex.—As a preliminary to the execution of flood relief measures, the government has contracted with the Southwestern Aerial Surveys, Austin, Tex., for photographing and mapping 4700 square miles of the Mississippi and Red River valleys. Half the project has been sub-let to Fortson, who has leased planes from the Southern Air Transport, Inc., of this city, and will begin work as soon as the planes have been fitted with larger gasoline tanks for longer flights between refuelings.

## Mobile Service Stations for Air Fields



These refuelers were built by the Columbian Steel Tank Co., Kansas City, Mo., for use at air fields of the United States Army Air Corps. Each truck is equipped for servicing both airplanes and dirigibles with gasoline, oil, water and air.

# HIGHWAYS AND MOTOR TRANSPORT

## CITY PLANNING AIDS SMALL MUNICIPALITIES

Possibilities for Directing Proper Development Considered Greater Than in Big Cities

By E. E. DUFFY.

Aided by a spacious and comprehensive city plan, the small municipality has a better opportunity for sane growth and for a happy and healthy living than the city of metropolitan size.

This statement of Harold S. Battenheim, editor of *The American City*, contains food for thought for every city and town regardless of size.

Most cities were not designed for the two modern vehicles of transportation—the airplane and the automobile. Their streets are narrow and but few of them can be used as through routes. To face the matter of street surfaces fairly it must be admitted that the great American street is rough and bumpy and costly and not at all suited to the needs of the automobile which works best on smooth surfaces. As for aviation, most metropolitan centers have as yet been unable to provide flying fields of easy access.

Large cities are making themselves over—Seattle cuts a new street through tall buildings—Chicago widens LaSalle Street by tearing off the fronts of structures—Pittsburgh gets more street space by arcading buildings—New York builds an elevated highway four miles long.

Small cities have the advantage for they may provide spaciousness right now without excessive use of the scissors. New streets should be of an adequate width and outlets should be provided that go some place. City planning information is available from a dozen reliable sources; there is no reason why the small city of today, which will be much larger tomorrow, should eventually face the problems confronting all of America's large cities now.

When a pavement is laid it should be a smooth pavement that will last without appreciable maintenance. When a new improvement is planned, the city should ask itself, "Will this thing be adequate 20 years from now?"

That is the only way a municipality can be fair to its population a decade hence.

## Bids on 79 Miles Roads

Jefferson City, Mo.—Bids will be opened by the State Highway Commission December 20 for 79 miles of roads, embracing a total of 25 projects. The

proposed work will cover 36.958 miles of gravel distributed among 11 projects; 22.587 miles of concrete covered in 8 projects; 14.011 miles of graded earth construction covered in 4 projects, and 5.538 miles of crushed rock covered in 2 projects.

## New Bids on \$11,667,000 Bridge Bonds

Frankfort, Ky.—Receiving but one bid for the purchase of \$11,667,000 bridge bonds, the State Highway Commission will revise the bond set-up and will open new bids January 6. Funds from the bonds will be used to purchase five bridges at a total cost of \$1,288,000, and to erect seven bridges at a cost of \$10,379,000. The bonds are expected to be redeemed with funds accumulating from tolls.

## \$12,818,000 for Virginia Roads

Richmond, Va.—Estimated funds to be available for state highway construction in Virginia for the fiscal year beginning July 1, 1930, and ending June 30, 1931, will reach a gross total of over \$12,818,000 and a net total of \$11,500,000, to be divided among eight construction districts of the state, according to the State Highway Commission. The gross total is made up as follows: Equivalent to one mill tax, \$1,650,000; motor vehicle fuel tax (3½ cents), \$7,500,000; convict labor, \$500,000; title fees, bus licenses, etc., \$400,000; Federal aid, \$1,450,000; supervision and engineering, \$318,260; to pay Robertson Act loans from surplus in treasury, \$1,000,000. From this total, the items of \$318,260 for supervision and engineering and \$1,000,000 for filling in gaps are deducted, leaving a net total as indicated above.

## Machine Finished Pavement

Contractor on Tennessee Project Uses Finishing Machine for Base and Surface

By GRANT FAITH, Resident Engineer, Springfield, Tenn.

A finishing machine was successfully used in building State aid project 382 B. S. in Tennessee, extending from Guthrie, Ky., to Red River in Robertson County, a distance of 5.1 miles, recently completed by Nelson Bros., Memphis. The road consists of a 6-inch concrete base, 18 feet wide including the curbs, and is surfaced with one and a half inches of Kyrock. The base was constructed to "blue-tops" with steel form set thereto, and finished with an Ord finishing machine with a one and a half inch crown. The machine was used to place on the base the compacted asphalt surface. Two screeds were so adjusted that two and one-fourth inches of loose rock asphalt was permitted to pass under. A screen extracted the coarse asphalt, leaving the fine asphalt to be pitched back in front of the back screed, thereby completely filling voids left by

the front screed and eliminating any honey-combed effect in the surface.

After the machine had laid the asphalt it was rolled and straight-edged; high and low places were determined and low places were "skin-patched" and rolled. The straight edge, 10 feet long, was fitted with a sharp metal bar to scrape off the high places. All asphalt laid was rolled as soon as finishing machine operations were completed; the following day, after the sun had warmed



Rear view of finishing machine spreading Kyrock



Machine-finished road in Robertson County, Tennessee

the asphalt, it was again rolled. These methods provided an excellent riding surface. It is possible to permit automobile traffic upon such a road in a day or two after the surface has been laid, but horse traffic and steel tire traffic should be kept off this type of pavement for at least a week.



## NEW AND IMPROVED EQUIPMENT

### Welding Jigs

Use of the proper jig in welding has an important bearing on factory production rate. Automobile manufacturers, having long realized this, utilize jigs of all sorts through the entire production line, states the Linde Air Products Company, New York, a unit of the Union Carbide and Carbon Corporation.

Sheet metal shops employing welding for fabrication of their products are also large users of carefully designed jigs, increasing the rate of production several hundred per cent.

In a certain instance, the adoption of a simple jig by a concern engaged in turning out flask bands for foundry use did away with the necessity of installing expensive special equipment. The accompanying illustration shows a welder using this jig while joining the flask band. These bands, strips of sheet steel bent in the form of a rectangle, are used in the foundry to bind together the wooden flask or box which holds the sand mold for a casting. To complete the rectangle it is necessary only to close one corner by welding.

The band is held between two pieces of metal, short pieces of angle iron



Using Simple Jig to Join Flask Band

nested one into the other, turned upside down and clamped to the table. The heel of the upper angle has been coped out, leaving an oval hole. A simple treadle arrangement consisting of a piece of steel wire and a bar completes the fixture. The corner of the band to be welded is slipped between the two angles until it is opposite the hole. Then pressure on the treadle clamps it in place during welding.

### Downes Structural Floating Cover

The Pacific Flush-Tank Co., New York, in announcing its interest in the Downes structural floating cover, calls attention to an important phase of sewage treatment and an interesting type of equipment. The Downes covers for sludge digestion and storage tanks are made of steel and designed to support themselves in any position in the tank. The top plate is cambered, permitting gas from the sludge to travel to the combined gas collector and sealed manhole located at the center of the cover, where it can be utilized for a number of purposes. Sludge may be added or removed without danger of creating an explosive hazard or interfering with biological action, because the cover floats on the

surface of the sludge at all times during normal tank operation. Odor control and exclusion of oxygen constitute two valuable features, and by nature of their operation the covers also permit rapid expansion and contraction due to barometric changes.

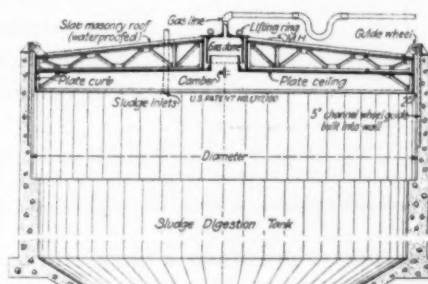


Diagram of the Cover

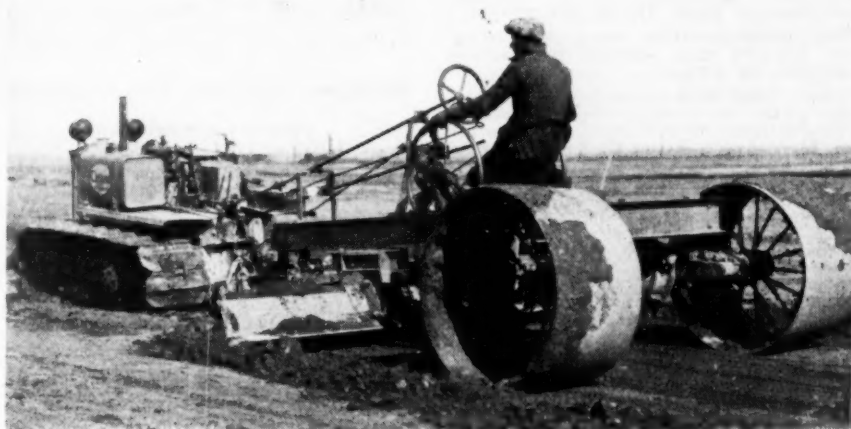
### Special Type of Tractor for Swampy Land

Model "30" Cletrac Swamp Special has been developed by the Cleveland Tractor Company, Cleveland, Ohio, as a crawler tractor designed to cope with the most extreme ground conditions that may be imposed upon a power unit, a tractor built to make comparatively easy what heretofore has been a difficult and oftentimes impossible type of work. It is particularly adapted to the sort of job in swamp and bog land where exceptional conditions of mud or loose sand prevail.

Four main features of the tractor are: Its broad steel tracks, 22 inches wide, to provide a ground contact and gripping surface of more than 3000 square inches; a pressure on the ground of only 2.6 pounds per square inch, a tread that is much lighter than that of a man's foot;

instantaneous lubrication, the Cletrac system of oiling that oils the tractor from the driver's seat; and the speed with which it covers the ground.

The Cletrac Swamp Special is being used in construction of what will be one of the world's great airports. Construction of this project on a 1000-acre tract of muddy marshland, requiring a 5,000,000-cubic yard fill to raise it above tidewater level, presented the problem of working on a surface of mire and ooze that barred the way to customary reclamation methods. It was necessary to find a power unit that not only would travel over such a footing but would have ample power to drag heavy equipment and haul and level off big loads of mud and fill. Site of the airport, which is being built for the New York Air Terminals, Inc., New York, covers a marshland waste along the Hackensack River, New Jersey.



Cletrac Model "30" Crawler Tractor

# CONSTRUCTION DEPARTMENT

## and

# NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

### Airports, Airplane Plants, Etc.

Ala., Montgomery—War Dept., Air Corps, Washington, D. C., reported, expend over \$1,000,000 on initial units of aviation tactical school, Maxwell Field; Maj. Walter R. Weaver, Commanding Officer, Maxwell Field.

Fla., Tampa—City consider proposals between Dec. 18 and 23 for airport site, to be approved on Dec. 24; engineers will draw up complete plans and specifications between Dec. 27 and Jan. 16, to be submitted to board for approval Jan. 21; bids will be advertised for between Jan. 22 and Feb. 11, contract to be let Feb. 18 and actual construction to start Mar. 1; \$750,000 bonds voted. 12-12

La., Shreveport—Wedell-Williams Air Service, New Orleans, acquired equipment, grounds and franchises of Shreveport Airways, Inc., Greenwood Rd.; will inaugurate daily plane service between New Orleans and Shreveport.

Md., Baltimore—Bd. of Awards, City Hall, let contract to Frank Carozza & Son, Old Town Natl. Bank Bldg., for conc. and brick retaining wall at airport, at \$12,500.

Md., Cumberland—Mountain States Aircraft Co., 18 S. Center St., incorporated; A. Hammond Amick, Jr.

Miss., Gulfport—Bd. of Supervisors of Harrison County opens bids Jan. 7 for hangar at municipal airport; 80x80 ft., steel conc., corrugated steel. 11-28

Mo., Cape Girardeau—Mississippi Valley Airways, Inc., chartered; George Huff, Cape Girardeau; Frank S. Moore, Chaffee.

Mo., Joplin—Robert McCrum, Mid-America Airport, St. Joseph, designer and builder of Bird Wing airplane, may establish plant here.

Okla., Chandler—City has preliminary plans for \$25,000 airport.

Okla., Perry—City plans airport.

Okla., Ponca City—City Council has plans for hangar; 125x210 ft. with repair and reconditioning facilities, to cost over \$65,000; E. O. Bennett, Engr., 1127 S. Seventh St.

Okla., Stillwater—City Comm. voted to acquire 231-acre tract selected by Aviation Committee for airport.

Tenn., Clarksville—Clarksville Aviation Corp., Collier W. Goodlett, Pres., let contract to International Steel & Iron Co., Evansville, Ind., for hangar; Walter G. Koch, Engr. 10-24

Tex., Beaumont—City, Frank Bertschler, Park Supt., establish \$100,000 municipal airport, Calder Rd.; \$15,000 hangar, modern, stucco, 80x100 ft., 100x120 ft.; \$7500 administration building; \$10,000 lighting system, to include rotary beacons, high-powered ceiling lights and flood lights; \$20,000 drainage system and runways; expend \$15,000 for weather bureau and other equipment.

Tex., Dallas—Good & Foster Aero Service Co., Byron Good, rebuild hangar, offices, etc., burned with \$250,000 loss, on larger scale; terminal will include waiting rooms and office.

Tex., El Paso—City Council ordered survey of conditions at airport with view to providing lump sum for improvements; \$17,000

now available and \$15,000 to be available in 1931; huge pile of sand across end of field probably be removed now at cost of \$8000. 10-31

Tex., Goose Creek—Chamber of Commerce, C. P. Trotter, Sec.-Mgr., considering 200-acre tract 3 mi. north of city for airport; Henry Cathriner, Chrmn., Airport Committee.

Tex., Houston—Southwestern Air Terminals, Inc., P. O. Box 111, let contract to Don Hall, Union Natl. Bank Bldg., for hangar at Curtiss-Wright Airport, Main St. Rd., at \$70,000; struc. steel, modern type, stone tile, stucco finish, orna. cast stone trim, 122x145 ft., waiting and rest rooms, machine shops and machine shop facilities for all types of airplanes, second floor for ground school; \$300,000 first unit of airport to include runways, lighting installations, roadways, water gas, telegraph and telephone connections, contracts for these to be let soon; ultimately expend approx. \$2,000,000; work being done under direction of J. F. Tuyls, Supervisor of Construction, Curtiss Airports Corp., 307 W. 49th St., New York; Paul C. Jackson, Mgr., Curtiss-Wright Flying Service, Houston Branch; Kenneth Franzheim, Archt., Chronicle Bldg., Houston, and New York. 11-21

Tex., McAllen—City acquired 200 acres for airport; city of Hidalgo to have interest through purchase; to be known as McAllen-Hidalgo Airport. 12-12

Tex., Tyler—City started grading runways for airport on Dixie Hwy.; bids received for \$12,000 hangar; 100x110 ft., lean-to, 12x100 ft., conc. floor; longest runway 4500 ft.; to be ready for planes Jan. 10; O. C. Palmer, Airport Mgr. 2-21

Va., Danville—City Council increased appropriations for hangars and shops; plans \$20,000 further expenditure; Lynchburg Flying Service, Inc., Lynchburg, Lessee.

Va., Richmond—Aeronautical Retarding Gear, Inc., 507 E. Franklin St., R. T. Lipscombe, Industrial Engr., acquiring 45 acres for flying field with 2000 ft. cross runways, and plant to manufacture "Davis" devices, mechanical pilots for airplanes, and to assemble specially designed plane for own needs and to demonstrate value of devices. See Want Section—Machinery and Supplies.

### Bridges, Culverts and Viaducts

#### Proposed Construction

Ala., Birmingham—City, A. J. Hawkins, Engr., plans letting contract on or about Jan. 1, for underpass at Fourteenth St. 11-14

Ala., Huntsville—State Highway Comm., Montgomery, completed surveys for Hurricane Creek Bridge, on Gurnley and Huntsville Highway, Madison County.

Ark., Camden—State Highway Dept., Little Rock, plans building 2 bridges in Ouachita County in 1930: Conc. viaduct over Cotton Belt R. R. tracks; bridge across Two bayou.

Ga., Atlanta—City, I. N. Ragsdale, Mayor, plans expending \$130,000 for underpass, under Southern Ry. tracks, North Ave., between Angier Ave. and Barnett St.; at \$62,250, to widen North Blvd. underpass, Gartrell St. to Georgia R. R. underpass, and rein. conc.

bridge at Decatur St.; C. E. Kauffman, Engr. 12-5

Ga., Augusta—S. B. Slack, State Bridge Engr., of Georgia, and Maj. D. L. Wear, Dist. Engr., U. S. War Dept., discussing plans for reconstruction of Sand Bar Ferry Bridge below Augusta, damaged by high waters in Oct.

Ky., Carrollton—State Highway Dept., Frankfort, completed plans for 2,500 ft. steel bridge across Ohio River, Carrollton; Ash, Howard, Needles & Tammen, Conslt. Engr., 1012 Baltimore Ave., Kansas City, Mo. 11-14

Louisiana—Louisiana Highway Comm., received low bids for 3 bridges, etc. See Roads, Streets, Paving.

La., Alexandria—Rapides Parish Police Jury plans bridge over Billie Bayou; I. W. Sylvester, Parish Engr.

Md., Glenburnie—State Roads Comm., Baltimore, received low bid from T. D. Claiborne Co., Garrett Bldg., Baltimore, \$11,937, to extend present substructure for proposed bridge over Patapsco River, on road from Westport to Glenburnie, Anne Arundel County; Cont. AA-49-A. 12-5

Md., La Plata—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, received low bid from Briddell & DeLuca, 64 Willow Spring Road, Dundalk, Baltimore, \$8867, for triple span slab bridge at Mason's Springs over Mattawoman Creek, on road from La Plata to Indian Head. 11-28

Miss., Cary—Sharkey County Bd. of Supvs., W. H. Carroll, County Clk., Rolling Fork, receives bids Jan. 6 for bridge across Deer Creek at Cary.

Miss., Liberty—Amite County Bd. of Supvs., receives bids soon for bridges across slough on Centerville and Liberty road, near Brown's old mill, Zion Hill road, Dist. No. 1; Bear Creek on Prentiss Highway, and over branch on Gloster-Stephenson highway, Dist. No. 3.

Miss., Macon—Noxubee County plans expending \$100,000 for bridges and culverts. See Financial News Columns. 11-28

Miss., Oxford—Lafayette County Bd. of Supvs., receives bids Jan. 7 for 100-ft. wooden bridge over Yocona River.

Mo., Jackson—See Roads, Streets, Paving.

Mo., Boonville—Missouri-Kansas-Texas Lines, F. Ringer, Ch. Engr., St. Louis, plan receiving bids on or about Apr. 1, 1930, for pneumatic, steel caisson type substructure of bridge across Missouri River at Boonville, three 300-ft. and 1-265 ft. fixed spans and 1-413 ft. draw span; contemplate construction of superstructure in 1931; total cost \$1,000,000; replace present structure.

N. C., Charlotte—City, R. W. Rigsby, Mgr., plans expending \$75,000 to \$100,000 for underpass under tracks of Southern Ry. on Tryon St. 11-14

N. C., Madison—City considering bridge over Dan River, either extending Murphy St. east across river, or following Water St. to site nearer present bridge.

N. C., Weldon—State Highway Comm., Raleigh, plans receiving bids in Feb. for 1,700-ft. bridge across Roanoke River;



Four 160-ft. thru truss spans over river, one 160-ft. thru truss span over main overflow channel; 900-ft. rein. conc. deck girder spans on pre-cast conc. pile bents; 20-ft. roadway. 12-12

Okla., Oklahoma City—City, E. M. Fry, Mgr., and Rock Island Ry. Co., W. H. Petersen, Ch. Engr., Chicago, Ill., considering plans for Exchange Ave. viaduct; W. W. Small, City Engr.; L. C. Fritch, head of Bridge Dept. of railway.

Okla., Oklahoma City—Oklahoma County, G. R. Murphy, Engr., plans 78-ft. rein. conc. underpass, under Britton road, at Sixty-third and Western St.; cost \$45,000.

Okla., Tulsa—City Comm., Dan W. Patton, Mayor, plans grade crossing at Midland Valley R. R. tracks, Woodward Blvd.; K. R. Teis, City Engr.

Tenn., Blountville—Dept. of Highways and Public Works, Nashville, receives bids Dec. 20 for 2 conc. overhead bridges and approaches, totaling .866 mi., over C. C. & O. R. R., between Washington County line and Kingsport, on State Highway No. 36, 52.714 cu. yd. excavation and borrow, 99,029 lb. deformed steel bars, 8407 lb. struct. steel; T. E. McEwen, State Highway Engr.

Texas-Oklahoma—State Highway Comm. of Texas, Austin, and of Oklahoma at Oklahoma City, receive bids simultaneously Jan. 20 for 2 bridges over Red River: At Gainesville, Tex., and Terral, Okla.; recently reported rejected bids for bridges; Glibb Gilchrist, Texas State Highway Engr.; A. R. Losh, Oklahoma State Highway Engr. 12-12

Texas-Oklahoma—Southwest L. E. Meyers Co., Allen Bldg., Dallas, plans starting work by Jan. 1 on Denison-Durant Highway No. 75 bridge; recently reported contract let jointly by Texas and Oklahoma State Highway Comm. 12-12

Tex., Austin—City, Adam B. Johnson, Mgr., plans letting contract after first of year for bridges at East Second St. and Red River St.; Hans F. Helland, Bond Engr.

Tex., Dallas—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, plans letting contract within next 60 days for 2000-ft., double-track steel bridge, conc. piers, from levee to levee, across Trinity River, 13 ft. higher than tracks on present crossing; steel girders; 200-ft. steel span over new channel of river; conc. piers; cost about \$900,000, not including fills. 12-12

Tex., Dallas—City Comm., J. Waddy Tate, Mayor, receives bids soon on 40-ft. and 60-ft. underpass on Cadiz St.; John M. Young, City Engr. 9-26

Tex., Houston—City, W. E. Monteith, Mayor, plans 1,040 ft. wooden trestle over "horseshoe" bend in White Oak Bayou, connecting Milam St. underpass with Kessler St.; cost \$45,000; H. L. Shaw, City Engr., preparing plans.

Tex., Llano—State Highway Dept., Austin, plans expending \$30,000 for water structures on Pecan Belt Highway north and south through Llano County.

Tex., Port Arthur—City, Jesse Hamilton, Clk., will receive plans, etc., Jan. 6 for Pleasure Pier Bridge; tentative plans provide double bascule type, 200-ft. clearance, roadway and sidewalks; \$300,000 available; J. W. O'Neal, Mayor. 12-5

Tex., Sherman—See Roads, Streets, Paving.

Tex., Weslaco—Los Almos International Bridge Co., Weslaco, plans conc., steel, suspension type, international bridge over Rio Grande River, cost \$150,000.

Va., Norfolk—City, Walter H. Taylor, 3rd, Dir. of Public Works, plans expending about \$600,000 about first of year, for 2 conc. bridges, replace present wooden spans.

#### Contracts Awarded

Ala., Enterprise—Coffee County Commrs. Court let contract to Jim Graham, Montgomery, \$7,341, for steel and conc. bridge over Pea River, on proposed State Highway between Enterprise and Opp.

Ala., Sipsey—Walker County Bd. of Revenue, Jasper, let contract to L. C. Britton Construction Co., \$35,838, for 407-ft. timber, steel and conc. bridge over Sipsey River near Sipsey. 11-21

Ga., Augusta—Southern Ry. Co., B. Herman, Ch. Engr., Washington, D. C., let contract to Virginia Bridge & Iron Co., Roanoke, Va., for 500 tons fabricated struct. steel for bridge over Savannah River, Augusta.

La., Oberlin—Louisiana Highway Comm., Baton Rouge, let contract to Missouri Valley Bridge & Iron Co., Fullerton Bldg., St. Louis, Mo., for 350 tons struct. shapes for bridge at Oberlin.

Mo., Ferguson—City, Bd. of Aldermen, S. G. Case, City Clk., let contract to Zels Erection Co., 4918 Landsdowne St., to erect steel structure; widen roadway of bridge over Moline Creek, on Florissant road; to E. J. Stanfield for conc. sidewalks on bridge.

Tex., San Angelo—Tom Green County Commrs. Court let contract to Austin Bridge Co., 1813 Clarence St., Dallas, for 150 tons struct. shapes for bridge over Concho River south of San Angelo. 11-28

#### Canning and Packing Plants

Fla., Coral Gables, Miami—Coral Gables Canning Co., incorporated; M. M. Michelson.

Fla., Palatka—Southern Potato Products, Inc., reported, let contract to A. N. Marvick, Palatka, for Irish potato canning plant on Browning's Spur; galv. iron with wood frame; cost of equipment \$18,000, consisting of shaftings, steam boiler, engine, etc.; capacity 2 carloads daily.

Fla., Winter Haven—Bland & Foster, Winter Garden, reported, has contract for packing plant addition.

Okla., Tulsa—Locust Grove Canning Co., Locust Grove, Mo., reported, has site on Sand Springs Rd.; erect canning plant; 3 buildings, struc. steel, corrugated iron; 40x80 ft. and 20x20 ft.; will move part of canning equipment from Locust Grove plant; also operate pecan shelling and packing dept.

S. C., Camden—Bloomville Cannery, Joe H. Thomas, contemplates moving present equipment for purpose of securing larger supply of raw material; building, 75x150 ft. to be erected by citizens; no new equipment planned for immediate purchase. 12-12

Tex., Donna—Shay Products Co., capital \$50,000, incorporated; John H. Shay, George S. Lane; remodel building at Val Verde, near here for grapefruit juice plant.

#### Clayworking Plants

La., New Iberia—Young Men's Progressive Assn., Carlos Bodin, Pres., reported, interested in establishment of brick plant.

Miss., Amory—The Abrams Co., are making plans for installation of common brick manufacturing machinery with intention of using natural gas burning device; manufacturing capacity of about 25,000 to 40,000 bricks per day.

Mo., Farber—Farber Fire Brick Co. incorporated; Robert H. Miller, Webster Groves; John D. Ramsey, Cleveland, O.

Mo., St. Louis—Laclede-Christy Clay Products Co., 411 N. Seventh St., reported, remodeling plant; installing equipment.

#### Coal Mines and Coke Ovens

Ark., Russellville—H. D. Skinner and W. W. Royce installing equipment at coal mine in Oultra Basin; erect barns, tool house and office.

Tenn., Whitwell—Black Diamond Coal Co., Comer Bldg., Birmingham, Ala., authorized installing mechanical washery at coal mines, recently acquired, cost about \$45,000.

#### Cotton Compresses and Gins

Ark., Truman—Allen Patterson Cotton Gin, Allen Patterson, Jonesboro, reported, plans rebuilding burned gin; brick and sheet iron; cost \$25,000.

Tex., Cuero — Cuero Compress, installing \$22,000 high density press, under direction of Harry Rowlett of Webb Press Co., Minden, La.

#### Cottonseed-Oil Mills

Tex., Richmond—Richmond Cotton Oil Co., Inc., capital \$100,000, chartered; M. D. Anderson, Lamar Fleming, Jr.

#### Drainage, Dredging and Irrigation

Tex., Bay City—Isaac T. Mann, 1333 16th St., N. E., Washington, D. C., acquired Collegeport Rice & Irrigation Co., consisting of 18,000 acres land, canals and improvements; V. L. LeTulle acquired Markham Irrigation Co.

Tex., Big Spring — J. V. Buch, Howard County Agt., terrace 10,000 acres at once.

Tex., Brownsville—Barreda Corp., capital \$150,000, incorporated; F. W. Seabury, C. P. Barreda; water control.

Tex., Brownsville—Earl C. Sams, New York, divert water from Rio Grande to irrigate 1750 acres 10 mi. west of city; V. L. Conrad, Engr., Brownsville, submitted plans to Bd. of Water Engrs., Austin; \$175,000 bond issue planned. 11-14

Tex., Edinburg — Hidalgo County Water Control & Improvement Dist. No. 12 organized and applied to Bd. of Water Engrs., Austin, for permission to appropriate water from Rio Grande; majority of land covered by wild growth of trees and shrubs; tentative plans call for conc. lined canal, large water storage reservoirs and pumping plant at intake at Rio Grande; total cost, reported, \$4,000,000, to be met by issuing and selling bonds.

#### Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Alabama—Alabama Power Co., Birmingham, Thomas W. Martin, Pres., plans expenditures of \$14,000,000 in 1930 on improvements, extensions and operations; \$1,200,000 of this amount to be spent for rural line extensions; completion of lower Tallapoosa development, adding 108,000 h. p. to company's system; extension of general system of company, serving all but 7 counties in State; improvements in all phases of service, including street railways.

Ark., Harrison—Arkansas Power & Light Co., Pine Bluff, reported, construct power lines Harrison to Yellville, Mountain Home, Bergman, Zinc, Lead Hill, Pyatt, etc.; private plans. 12-5

Ark., Marianna — Arkansas Utilities Co., controlled by Community Power & Light, St. Louis, Mo., reported, install white way in business district.

Louisiana—Louisiana Power & Light Co., Algiers, advises regarding Amite-New Orleans line: Work consists of 111 miles of 110 kv. line to extend from Amite to New Orleans; constructed on wood pole H frame, with 336 c.m. aluminum cable for conductor; project involves extension to Amite 110 kv. substation to allow for switching facilities for interconnection, construction of new 30,000 kv-a. substation at Gretna for stepping down from 110,000 to 13.2 kv. for interconnecting with Market St. generating station of New Orleans Public Service, Inc., and construction of overhead and submarine crossing across Mississippi River; overhead river crossing will be located near Hahnville; will provide 150-ft. clearance above maximum high water in river; steel towers approximately 425 ft. high, span from tower to tower 3800 ft.; construction work by Phoenix Utility Co., 2 Rector St., New York; total expenditure \$1,500,000; project when complete will serve as interconnection between Louisiana Power & Light Co. and New Orleans Public Service, Inc., and serve as tie between those companies and Mississippi and Arkansas Power & Light companies. 12-12

La., Baton Rouge—American Bridge Co., 30 Church St., New York, reported, has contract for 450 tons fab. struc. steel for river crossing towers for Baton Rouge Electric Co. 8-22

La., Lusher — See Ice and Cold-Storage Plants.

Md., Chestertown — Chestertown Electric Light & Power Co., extend distribution system into Queen Anne's county within radius of 3 miles of Chester River Bridge.

N. C., Wilson—City plans improvements and extensions to electric light and power plant; cost \$300,000.

Maryland—Potomac Edison Co., Hagerstown, reported, expend \$1,200,000 in 1930 by various affiliated and subsidiary companies; work will include improvements and additions to generating stations, transmission and distributing lines; in connection with electric railway operations; purchase additional equipment for city and later city motor bus transportation operations.

Oklahoma—Public Service Co., of Oklahoma, Tulsa, advises engineering work for addition to Weleetka power plant is in progress; construction work should start about Feb. 1st; installation will include 15,000 kw. Westinghouse turbo-generator unit and two 1000 h. p. Babcock & Wilcox, (Packard Bldg., Philadelphia, Pa.) Stirling type boilers complete with air heaters; general contract has not been let; R. K. Lane, V. P. in charge of production. 11-7

Okla., Canton—Earl W. Baker & Co., Perrine Bldg., Oklahoma City, reported, acquired municipal power and water plant.

Okl., Fairview—C. L. Berger Co., Braniff Bldg., Oklahoma City, reported, has contract at \$37,000 for rebuilding electric distribution system and white way. 10-31

Tenn., Franklin—Nashville Interurban Co., Lawrence B. Howard, Nashville Trust Bldg., reported, construct power plant, Sandy Brown Place; F. H. Tathwell & Co., Archts., American Trust Bldg., Nashville, taking bids on detail contracts; brick, stone, conc. and steel, fireproof, common and face brick; asphalt and built-up roof, conc. floors, steam heating, skylights, steel sash, coal chute; electric wiring, ventilating fans; cost \$150,000. 11-28

Texas—Central Power & Light Co., Frost Natl. Bank Bldg., San Antonio, constructing 11 kv. line Marfa-Davis in Big Bend County; Southwest L. E. Myers Co., Allen Bldg., Dallas, Contr.; Texas Creosoting Co., Orange, Texas, and International Creosoting Co., Galveston, Tex., furnishing poles; Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa., conductor; Thomas Insulator Co., insulators; Joslyn Co., 233 Broadway, New York, the hardware; J. T. Persons, Ch. Engr. 11-28

Texas—Insull, Son & Co., Inc., 72 W. Adams St., Chicago, Ill., advises investment in Pecos Valley Light & Power Co., of Texas, New York office, 39 Broadway, N. Y., was not made by Insull, Son & Co., Inc., as lately reported. 12-12

Texas—Following Utility companies, reported, plan total expenditure of \$75,000,000 during 1930 in Texas, for improvements, extensions and general betterments: Houston Lighting & Power Co., Houston; Galveston Electric Co., Galveston; Gulf States Utilities Beaumont; East Texas Electric, Beaumont; Dallas Power & Light Co., Dallas; Dallas Railway & Terminal Co., Dallas; Texas Utilities, Lubbock; Southwestern Public Service, Amarillo; Northern Texas Traction Co., Fort Worth; San Antonio Public Service, San Antonio; West Texas Utilities, Abilene; Central Power & Light Co., San Antonio; Southwestern Gas & Electric Co., Texarkana; Fort Worth Light & Power Co., Fort Worth; Southwestern Bell Telephone Co., St. Louis, Mo.; Lone Star Gas Co., Dallas; Dallas Gas Co., Dallas; Fort Worth Gas Co., Fort Worth, and Municipal Gas Co., Dallas.

Texas—Central Power and Light Co., Frost Natl. Bk. Bldg., San Antonio, reported, construct high line to serve Normanna, Tuleta and Pettus, in northern Bee County; work to be under way in Jan.

Tex., Dallas—Dallas Power & Light Co., reported, expend \$5,000,000 in construction work during 1930; program includes \$2,000,000 office building, Jackson & Browder Sts.; remaining \$3,000,000 will care for natural growth of business; power contracts will require extension of underground system.

Tex., Mineral Wells—Texas Power & Light Co., Dallas, constructing transmission line from here to Palo Pinto, cost, together with distributing system in Palo Pinto and 3 suburbs of Mineral Wells, \$75,000.

Tex., Fort Worth—Eugene Ashe Electric Co., 505 Jones St., reported, has contract for white way standards, S. Main St. between Rio Grande and Magnolia Aves.

Tex., San Antonio—San Antonio Public Service Co., reported, expend \$2,500,000 in 1930 as follows: \$500,000 for gas department; \$1,500,000, electric department; \$300,000 for traction department; \$200,000 for extension of electric service outside of city; \$900,000 of this amount will be expended on installation of high pressure steam turbine and boilers at Station B on Concepcion Rd.

Virginia—Appalachian Electric Power Co., Roanoke, advises \$11,000,000 construction program for 1930 for Appalachian Electric Power Co., operating in Virginia and West Virginia and through subsidiaries in Eastern Kentucky and eastern Tennessee is as follows: Steam generating equipment, \$3,815,000; Transmission lines, \$1,600,000; Substations and substation equipment, \$2,750,000; Distribution lines, meters, transformers, services, etc. for new customers, \$2,380,000; miscellaneous, including office and service buildings, garages, etc., \$455,000; contingent on governmental release, a beginning will be made on company's \$17,000,000 hydro-electric development program.

Virginia—Virginia Electric & Power Co., Richmond, reported, begin construction in 1930 of first unit to cost \$5,000,000 of \$9,000,000 super hydro-electric project on Roanoke River above Weldon, on Virginia-North Carolina line. 8-22

Va., Richmond—Virginia Electric & Power Co., reported, expend about \$2,000,000 in improvements in Richmond in 1930, part of

\$6,000,000 total expenditure in Virginia; of this amount \$125,000 will be for transportation facility improvements, rehabilitation of car tracks, bus dept., etc.; \$725,000 for production and distribution dept., including generators, distributing plant at Cary and Belvedere Sts.; \$1,000,000 will be used in Richmond district contiguous to city for development of power facilities and transmission lines.

Va., Tazewell—Appalachian Electric Power Co., Bluefield, W. Va., reported, begin work after Jan. 1 on white way system for business district; expend \$30,000 on distribution system from Tazewell Electric Light & Power Co. 5-16

W. Va., Bluefield—Appalachian Electric Power Co., expend \$500,000 in improvements in Bluefield and vicinity, including Mullens, Glen Lyn, Welch and intermediate communities; let contract to Babcock & Wilcox Co., Packard Bldg., Philadelphia, Pa., and New York, for 2000 h. p. powdered fuel boiler at Glen Lyn steam plant; will erect addition to plant.

W. Va., Charleston—New Kanawha Power Co., Carbide & Carbon Bldg., 30 E. 42nd St., New York, lately noted to construct dam and hydro electric plant, plans starting work May 1, 1930. 10-17

### Flour, Feed and Meal Mills

Okl., Oklahoma City—Superior Feed Mills Co., 2126 W. Ash St., reported, construct grain elevator; cost \$35,000; W. Lambert, Contr., 1812 W. 16th St.

### Foundry and Machine Plants

Ala., Sheffield—W. C. Kelly Axe & Tool Co., W. Charleston, W. Va., John Richardson, Local Mgr., erect \$10,000 plant, 20th St.

Fla., Miami—Ive Machine Service Corp., incorporated; Rex. C. Snell, 1627 N. W. 3rd St.

Tex., Dallas—Perfection Ice Scoring Machine Co., capital \$45,000, incorporated; B. H. Giles, 5337 Miller St.

Tex., Houston—Midwest Piping & Supply Co., 1450 S. 2nd St., St. Louis, may establish plant, Calhoun Rd.

W. Va., Wheeling—Centre Foundry & Machine Co., J. H. Young, Pres., let contract to Wheeling Structural Steel Co. for addition to plant producing iron castings, ingot molds, slag ladles and cinder pots; 100x50 ft., 300 ft. addition crane runway over yard, steel construction, comp. roof; install 20-ton and 10 ton cranes from Northern Engineering Co., 210 Chene St., Detroit, Mich.; foundation by Consolidated Engineering Co., Natl. Bank Bldg.; H. L. Hesse, Engr.

### Garages and Filling Stations

Ala., Wetumpka—G. B. Smith let contract to Lanier Construction Co., Wetumpka, for \$25,000 garage; 1 story and part basement, conc. footings, brick, struc. steel, built-up roof, plate glass fronts; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 12-12

D. C., Washington—Shell Eastern Petroleum Products Corp., A. F. Carter, Pres., 141 Milk St., Boston, Mass., reported, acquired 65 service stations and storage and terminal facilities of Penn Oil Co.

D. C., Washington—Tom's Auto Service, Inc., capital \$100,000, chartered; Leonard A. Block, Woodward Bldg.

Fla., Fort Lauderdale—Firestone Tire Stores, Akron, Ohio, let contract to Hart & Johnson, Fort Lauderdale, for service station, Federal Hwy. and Los Olas Blvd.

Fla., Frostproof—Frostproof Auto Sales, Inc., chartered; R. H. Mizell, W. J. Head.

Fla., Gainesville—Shell Petroleum Corp., C. D. Crites, Div. Mgr., Lynch Bldg., Jacksonville, advises recently acquired few operations units in this territory; no construction of note planned. 12-5

Fla., Miami Beach—Twelfth Street Garage Co. let contract to A. H. Higgins for \$50,000 garage and rooming house for chauffeurs, 1150 Collins Ave.; 2 story; A. Fraser Rose, Archt., 537 Collins Ave.

Ky., Louisville—Ditto-Johnson Motor Co., Ford dealers, Broadway and Floyd St., let contract to G. H. Rommel Co., 958 Logan St., for \$65,000 garage Bardstown Rd. and

Grinstead Dr.; 1 story, basement, 20,000 sq. ft. floor space, rein. conc., brick, steel. 10-17

Md., Cumberland—Fletcher Motor Co., Inc., 219 N. Mechanic St., capital \$20,000, chartered; Albert W. Fletcher, Bedford, Pa.; Clarence P. Fletcher, Jr., Cumberland.

Md., Cumberland—Cramer Service Stores, Inc., capital \$50,000, chartered; William J. Cramer, 842 Gephart Drive, Cumberland; Robert M. Kimmel, Akron, Ohio; deal in tires, tubes, motor accessories, etc.

Md., Hagerstown—Wells Chevrolet Sales, Inc., changed name to Minick Chevrolet Sales Inc.

Miss., Meridian—Shell Petroleum Co., Canal Bank Bldg., New Orleans, La., let contract to Jacobs & Co., Lutz Realty Bldg., Jacksonville, Fla., for 2 filling stations, Seventh St. and 25th Ave., and Sixth St. and 19th Ave.; 1 story and basement, 35x50 ft.; comp. roof, conc. floors, about \$5000 each. 11-28

Mo., St. Louis—Automobile Dept. Stores, Inc., J. D. Wealkey, Pres., 718 N. Kings-highway, let contract to C. H. Schroeder Building & Construction Co., 2806 N. Grand Ave., for altering and additions to service station; 2 story, brick; Aegerter & Bailey, Archts., Ry. Exch. Bldg.

Mo., St. Louis—Standard Oil Co. (Indiana) 910 S. Michigan Ave., Chicago, Ill., acquired site, Garrison and Cass Ave., for filling station.

Mo., St. Louis—H. H. Sims Construction Co., 5510 Nat. Bridge, erect garage and store by sub-contract; taking bids on all sub-contracts, no closing date; 3 story and basement, 44x105 ft., conc. roof slab, conc. and wood floors, steel sash, copper sheet metal work, plate and clear glass; John Wunderlich, Archt., 4930 Tholozan Ave.

N. C., Raleigh—Raleigh Nash Co., capital \$75,000, incorporated; R. L. Atkins, 28 Dixie Trail.

Okl., Oklahoma City—Service Motor Co., S. P. Brown, Mgr., 106 W. Sixth St., Plymouth dealer, broke ground for automobile building, 12th St. and Robinson Ave.; 62x150 ft., display room, office and servicing department, to be complete Feb. 1.

Okl., Oklahoma City—Johnson-Norton Buick Agency let contract to Tankersley Construction Co., Exchange Bank Bldg., for \$140,000 sales garage; 3 story and basement, 125x160 ft., brick, stone, rein. conc. 10-10

Tenn., Jackson—Penn-Tenn. Oil Co. leased site, Chester and Royal St. for \$20,000 to \$25,000 filling station.

Tenn., Johnson City—Murray Rubber Co., Trenton, N. J., Walter P. Fields, special representative, Knoxville, plans establishing retail store here; to be one of 1000 being located throughout South.

Tenn., Nashville—Firestone Tire & Rubber Co., Akron, Ohio, care Hancock Tire Service Co., 904-6-8 Broad St., completing plans and receives bids on about Dec. 18 or 20 for 1-stop service station; Marr & Holman, Archts., Stahlman Bldg. 12-12

Tex., Arlington—Theannish Chevrolet Co. changing name to Binney-Dicklow, Inc.

Tex., Beaumont—W. P. McFaddin, 1906 McFaddin St., expend \$10,000 remodeling garage Broadway and Willow St.; brick plate glass; soon let contract.

Tex., El Paso—Goff Williams Motor Co., Inc., chartered; T. W. Williams, 1217 N. Brown St.

Tex., El Paso—R. L. Morris and Sam Rutherford, care Morris Investment Co.; 15-story Medical Arts Bldg., Franklin and Mesa Sts., garage in first floors; ramps; Brauntton & McGhee, Archts., both First Natl. Bk. Bldg.

Tex., Sherman—Max Gibbs & Sons have contract for reconstructing building, S. Travis and Jones Streets, for 1-stop Firestone service station; to be operated by A. E. Hotchkiss; \$10,000.

Tex., El Paso—Texas Co., 17 Battery Place, New York, plans filling stations at strategic points as part of expansion program in connection with new refinery.

Tex., Houston—Consolidated Oil Co., 2905 McKinney St., leased site, Milam St. and Webster Ave. for filling station; 1 story, brick.

Tex., Houston—Shell Petroleum Corp., Shell Bldg., St. Louis, Mo., acquired site, N. Main and Cordell St. for service station.



Tex., Houston—Pruitt Spring Service Co., F. C. Pruitt, 1011 La Branch St., let contract to John Stadler for \$20,000 building, 1315 Polk Ave.

Tex., Lagrange — R. A. Dunk acquired Otto Krieschnick home; plans additions and erecting new garage.

Tex., Laredo—Border Oil Co. razing Werner building, Jarez Ave. and Houston St.; erect automobile building.

Tex., Palestine—Humble Oil & Refining Co., Humble Bldg., Houston, let contract to Rabe Wilson, Waco, for razing present building and erecting filling station; 1 story, brick, stucco, driveways from every direction, 8 pumps; \$10,500.

Tex., San Antonio—Roth Bros., Louis R. Roth, let contract to L. T. Wright & Co., Bldgs. Exch. Bldg., at approx. \$60,000 for garage addition, 311 N. Flores St.; 2 additional stories and remodeling, conc. tile; Beretta-Stiles Co., Inc., Engr., Natl. Bank of Commerce Bldg.; Ralph H. Cameron, Archt., Majestic Bldg. 10-3

W. Va., Charleston — Sterrett Motor Co., Inc., capital \$10,000, chartered; F. M. Stambaugh, 1719 Quarrier St.

W. Va., Huntington—Fourth Avenue Service, Inc., capital \$25,000, incorporated; Mason C. Miller, 806 5th St.

### Gas and Oil Enterprises

Ark., Fort Smith—Fort Smith Gas Co., Graham Williams, Jr., Mgr., Garrison Ave., reported, start work in 3 weeks on 4-in. pipe line Central City to Greenwood.

Ark., Fort Smith — Southwestern States Gas Co., 711 Garrison Ave., James C. Kennedy, Pres., 1100 Allen Bldg., Dallas, Tex., construct natural gas distribution system.

Kentucky—Stockholders of General Gas & Electric Corp., controlled by Associated Gas & Electric Co., 50 Pine St., New York, reported, vote Jan. 6 on proposed amendment to company's charter to split up common stock, Class A, and common stock, Class B, on basis of 5 new shares for each share now outstanding; increase number of authorized shares of common stock, Class A, to 10,000,000 and number of authorized shares of common stock, Class B, to 4,000,000 shares; number of authorized shares of cumulative preferred stock will be 1,000,000; company, through subsidiaries, operates in Florida, South Carolina, Maryland, etc.

Ky., Owensboro—Illinois Pipe Line Co., Findley, Ohio, reported, construct pipe line from Daviess county to Niagara field and pipe oil to Owensboro.

La., Crowley—Shell Petroleum Corp., Canal Bank Bldg., New Orleans, reported, acquired A. M. Zwan's bulk station, including warehouse, storage tanks, etc.

Md., Cumberland—Maryland Petroleum Co., Inc., 21 Liberty St., capital \$300,000, incorporated; Wm. E. Frame.

Miss., Louisville—Mississippi Natural Gas Corp., Birmingham, Ala., has franchise to furnish gas to city; distributing facilities and construction work not yet planned.

Miss., Macon — Mississippi Natural Gas Corp., construct pipe line in city for distribution of natural gas; gas to be brought to city by Southern Natural Gas Corp., Birmingham, Ala.

Miss., Pass Christian—Southwestern Gas & Electric Co., Travis & Marshall Sts., Shreveport, La., Engineering Dept., Texarkana, Ark.-Tex., A. Lieberman, Pres., Texarkana, Tex., let contract to Southwest L. E. Myers Co., Allen Bldg., Dallas, Tex., for 65,000 ft. of 4-in. welded gas line Gulfport to Pass Christian; cost \$65,100. 12-5

Miss., Yazoo City—Mississippi Gas & Electric Co., subsidiary of Mississippi Power & Light Co., Jackson, reported, granted 25 yr. gas franchise.

Missouri—Missouri Natural Gas Co., 1017 Olive St., St. Louis, advises all construction work contemplated will be taken care of by own engineering organization. 12-5

Mo., Kansas City—Standard Oil Co., J. W. Wilson, 5301 E. 9th St., having preliminary plans drawn for 3-story brick building.

Mo., St. Louis — Cities Service Gas Co., Bartlesville, Okla., reported, let contract to Hercules Construction Co., Wainwright Bldg., St. Louis, for 1 story, storage and distribution plant at 4226 Chippewa St.

N. C., High Point—Independent Oil Corp., incorporated; T. M. and E. B. Jarrell.

N. C., Winston-Salem—Columbia Gas & Electric Corp., 61 Broadway, N. Y., reported, making survey for natural gas system.

Okla., Elk City—City votes soon on \$190,000 gas bonds.

Okla., Mulhall—City reported, votes Dec. 18 on granting gas franchise to Logan Gas Co., Guthrie.

Okla., Oklahoma City—Cromwell-Franklin Oil Co., Franklin Bldg., reported, plans oil pipe line from city oil field to tank farm near Moore; cost \$35,000.

Tenn., Knoxville—Knoxville Gas Co., H. G. Bonner, Gen. Mgr., plans replacing present 6-in. main with 8-in. mains on Kingston Pike from Fulton plant to Scenic Drive; cost \$25,000.

Tenn., Paris—Apex Oil Corp., Frank Reed, Pres., 2420 Charlotte Ave., Nashville, reported, acquired interest in Paris Oil Co.

Tenn., Shelbyville—City, reported, considering application of North American Utilities Corp., Chicago, Ill., for gas franchise; erect \$100,000 plant.

Texas—See Electric Yight and Power.

Texas—United Gas Co., Esperson Bldg., Houston, reported, negotiating for gas properties of Magnolia Petroleum Co., Dallas, in Texas; Stone & Webster Engineering Corp., 120 Broadway, N. Y., appraised properties; transaction will involve \$50,000,000.

Tex., Allen—Lone Star Gas Co., 1915 Wood St., Dallas, reported, has contract for natural gas system.

Tex., Olney — Olney Oil & Refining Co., capital \$40,000, incorporated; O. T. Anderson.

Tex., Dallas — Texas Eagle Refining Co., incorporated; J. K. Whitehead, 203 1/2 S. Clinton St.

Tex., Dallas—Arrowhead Oil Co., capital \$50,000, incorporated; M. N. Bawker, 3521 Turtle Creek St.

Tex., Donna—Russell Oil Co., 1629 S. Laredo St., San Antonio, reported, receiving bids for 5 metal and rein. conc. storage tanks; cost \$35,000; private plans.

Tex., Galveston — Shell Petroleum Corp., Shell Bldg., St. Louis, Mo., reported, construct depot comprising 5 storage tanks, storeroom and pumping plant Forty-fifth St. and Ave. E.

Tex., Mineral Wells—Brazos River Gas Co., Wichita Falls, constructing \$100,000 gas line from northwestern portion of Palo Pinto County.

Tex., Throckmorton—Mozzle Oil Corp., incorporated; L. Wolf, L. M. Davis.

W. Va., Welch—Amere Gas Utilities Co., 3130 Hall St., St. Louis, Mo., granted gas franchise; extend pipe line from company's wells in Wyoming County. 12-12

### Ice and Cold-Storage Plants

Fla., Tavares—Florida Public Service Co., installing 75-h. p. compressor in ice plant.

Ga., Atlanta — United States Cold Storage Co., A. Epstein, Engr., 2101 W. Pershing Rd., Chicago, Ill., reported, let contract to E. W. Sproul Co., 2001 W. Pershing Rd., Chicago, Ill., for \$2,500,000 storage building, Pryor, Wall St. and Central Ave. 12-5

La., Lutecher — Louisiana Ice & Utilities, Inc., Alexandria, has plans in progress to be on market in about 2 weeks for ice and power plant; 35 ft. high, 70x90 ft., pile foundation, conc. floor, brick, conc., steel, cork insulation, steel sash, steel and iron work, glazing, built-up, comp. roof, sheet metal work; Sam Stone, Jr. & Co., Archt., Masonic Temple Bldg. New Orleans.

Tenn., Memphis—Jefferson Ice Co. plans 100-ton ice plant, Jefferson Ave. and Neely St.

Tex., San Antonio—Scobey Fireproof Storage Co., F. E. Scobey, Pres., 311-15 N. Media St., let contract to McKenzie Construction Co., Smith-Young Tower, on cost plus basis for warehouse, N. Media St.; plumbing sprinkler system and electric wiring contracts; not let; plans in progress on cold-storage warehouse; Engineering Service Corp., Engr., Post Dispatch Bldg., Houston. 9-26

Tex., Whitesboro—City votes Jan. 6 on \$15,000 bonds for municipal ice plant.

### Iron and Steel Plants

Ala., Birmingham—United States Steel Corp., 71 Broadway, New York, reported, expend \$300,000,000 in next 3 years for expansion and improvement; Tennessee Coal, Iron and Rail Road Co., Birmingham, and Illinois Steel Co., Chicago, Ill., both subsidiaries of U. S. Steel Corp., probably be enlarged.

Tex., Austin—Consolidated Steel Corp., incorporated; Q. C. Taylor, Norwood Bldg.

### Land Development

Ark., Magnolia—Magnolia Golf Course, W. H. Warnock, Pres., develop 45 acre golf course.

Fla., Miami—Seaview Land Co., incorporated; J. B. Reid, 301 5th St., Miami Beach.

Fla., Miami—Lerando Co., incorporated; A. M. Moore, 2212 N. E. 2nd Court.

Fla., Miami—Malex Corp., incorporated; F. E. Bryant, Castile Ave., Coral Gables.

Fla., Tampa — Adams-Kennedy Co., Inc., chartered; W. A. and J. S. Adams, 1715 Hills Ave.

Fla., Tallahassee—Tiger Island Hickory Co., incorporated; N. K. Higginbotham, E. Georgia St.

Ga., Atlanta — Glynn Investment Co. acquired 308 acres near Piedmont Rd.

Md., Hancock—Fred L. Glaize, Winchester, Va., reported, acquired apple orchard in Hancock district.

Mo., Joplin—Park Bd., L. B. Cook, Pres., plans expending \$15,000 for park improvements including wading pool, 3 entrance piers at Schifferdecker Park; erect concession house.

Mo., Joplin—Edwill Beach Corp., Winfield, Kans., develop 240 acres Stone County for resort and townsite; expend \$25,000; W. R. Draper, Constr. Engr.; work to begin in about 6 months. 12-12

Mo., Kansas City—Equitable Realty Corp., incorporated; George L. Walker, 10909 Winner Road.

Mo., St. Louis—Joe. A. Miller Real Estate Co., Inc., Wainwright Bldg., incorporated.

Mo., St. Louis—Victor H. Rhodes, Inc., chartered; Victor H. Rhodes, Webster Groves.

N. C., Charlotte—H. C. Sherrill Co., 34 S. Tryon St., developing 100 acre subdivision near Myers Park Country Club; installing sewer system.

N. C., Raleigh—Fruitland Co., capital \$150,000, incorporated; E. C. Judd, Professional Bldg.

S. C., St. Andrews, Charleston — Simons Nursery Co., incorporated; Simons Lucas, Charles W. Simons.

Tex., Brownwood—See Roads, Streets, Paving.

Tex., Dallas—Park Bd. plans developing White Rock Lake park, 2000 acres.

Tex., Dallas—City, retained W. B. Woodruff, Mercantile Bank Bldg., to prepare plans for improvement to park system; may sell \$500,000 park bonds.

Tex., Donna — E. F. Renner, Earlsboro, Okla., acquired Val Verde orchard, 28 acres.

Tex., Mineral Wells—Baker Hotel Corp., San Antonio, reported, develop 640 acres adjoining city for pleasure resort; construct golf course.

Tex., Pampa—City, reported, expend \$50,000 for parks and playgrounds.

Tex., San Antonio—Pawnee Realty Co., increased capital \$100,000 to \$175,000.

Tex., San Antonio—Wilshire Heights Co., Inc., M. C. Malone, Pres., Houston, develop Wilshire Heights Addition 224 acre subdivision; let contract to Rodgers & Stewart, 300 Nolan St., for 10,000 ft. of curb; install water, sewer, etc.

Tex., San Jose—Mayfield Park Properties, Inc., chartered; Thurman and A. P. Barrett.

Va., Norfolk—Four Sixteen Granby Street Corp., capital \$60,000, incorporated; E. C. Dodson.

Va., Norfolk—C. F. Yahn & Co., Inc., chartered; C. F. Yahn, 1804 Claiborne St.

W. Va., Huntington—Rail Mill Realty Co., capital \$100,000, incorporated; H. A. Zeller, 17th St. and B. & O. R. R.

W. Va., Inwood—A. W. Jones, Hickory St., Pittsburgh, Pa., reported, acquired Rosebud Orchard, 94 acres near here, also Wilderness Orchard, 40 acres.

### Lumber Enterprises

Florida—See Miscellaneous Enterprises.

Fla., Dade City—Harrelson & Co. installing sawmill on Atlantic Coast Line Ry., near city.

Georgia—J. A. Reid, Jacksonville, Fla., reported, acquired 43,000,000 ft. pine and oak timber from 28,000-acre tract, Southeast Georgia.

Ga., Valdosta—J. N. Bray Co., C. C. Giddens, V.-Pres. and Treas., advises 6000 acres timber recently acquired to be manufactured at plant now in operation here; not in market for new machinery 12-12

### Metal-Working Plants

Tex., Dallas—Atlas Metal Works, capital \$50,000, incorporated; Boud Storey, 2601 Alamo St.

### Mining

Ala., Birmingham—Swann Corp., Theo. Swann, Pres., holding company for Southern Manganese Corp., Federal Phosphorus Co., Federal Abrasive Co., all Brown-Marx Bldg., Birmingham Glass Co., Naphthalene Products Co., both Tarrant City, Birmingham, and others voted to increase capital issue for expansion in activities of subsidiaries.

### Miscellaneous Construction

Fla., Miami Beach—R. S. Rhoads let contract to R. G. Wetters for \$10,000 swimming pool, Star Island; Russell T. Pancoast, Archt., 1239 Lincoln Rd.

Ga., Atlanta—Nashville, Chattanooga & St. Louis Ry., H. McDonald, Ch. Engr., Nashville, Tenn., let contract to MacDougald Construction Co., 280½ Peachtree St., for \$225,000 plaza, Forsyth St.; struc. steel with conc. deck construction, misc. iron and steel.

Ky., Hickman—Illinois Central R. R. Co., A. F. Blaes, Ch. Engr., Chicago, Ill., construct, by company's forces, conc. flood gate in levee at railroad crossing. 12-12

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, has low bid at \$4.12 per lin. ft. from J. M. DeFrates, Inc., Canal Bank Bldg., New Orleans, for approx. 2370 lin. ft. wooden revetment on Alliance extension levee, Barataria Levee Dist.; bids taken under advisement. 11-28

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, let contract to Scott & Bros., Maritime Bldg., New Orleans, at \$9588, for 51,000 cu. yd. earthwork, Second New Orleans Dist. 10-31

La., Lake Arthur—U. S. Engr. Office, Poland and Dauphine St., New Orleans, opens bids Jan. 10 for constructing boathouse; 20x45 ft., galv. sheet iron, on creosoted pile foundation, roof to be covered with corrugated sheet iron, corrugated sheet iron sides.

Md., Baltimore—General Casimir Pulaski Monument Committee, DeCourcy W. Thom, Chmn., Pulaski, Publicity Committee, selected Hans Schuler, Sculptor, 5 E. Lafayette Ave., and A. C. Radziszewski, Archt., 425 S. Ellwood Ave., to produce model for Pulaski monument.

Md., Baltimore—See Airports, Airplane Plants, etc.

Mississippi—U. S. Engr. Office, Postal Telegraph Bldg., Vicksburg, Miss., let contract to Southwestern Aerial Surveys Co., Inc., Austin, Tex., for photographing and mapping 4700 sq. mi. of Mississippi and Red River Valleys; ½ of project sub-let to Tommy Fortson; planes for half of project leased from Southern Air Transport, Inc., Fort Worth Natl. Bank Bldg., Div. of Aviation Corp., 122 E. 42nd St., New York.

Mo., St. Louis—City Plan Comn. approved constructing depressed highway under Tower Grove Park, Tower Grove and Magnolia Ave. to Arsenal St., adjoining Morgan Ford Road, costing \$650,000.

S. C., Charleston—Bennette Grain-Feed Co. applied to War Dept., Washington, for permission to construct wharf in Shipyard River; open pile construction, projecting 20 ft. into waterway, 30 ft. wide.

Tenn., Knoxville—City, W. W. Mynatt, Director of Public Service, let contract to Murray Construction Co., 508 Union St., under regular contract for Henley St. improvement for tunnel under that street involving 360 cu. yd. conc., 75,000 lb. steel, 2000 cu. yd. earth excavation; 206 ft. long, 9 ft. wide, 9.6 ft. high. 12-12

### Miscellaneous Enterprises

Ala., Birmingham—Dr. Pepper Co., J. W. Link, Pres., 4505 Fairfax St., Dallas, Tex., leased building and purchased machinery for bottling plant; original unit to produce 2500 cases daily; employ 30.

Ala., Greensboro—Libby, McNeill & Libby, Tuscaloosa, Ala., and Chicago, open milk depot Jan. 1.

Ark., El Dorado—American Paint Corp. of Arkansas capital \$50,000, incorporated; L. A. Reed, E. M. Hamilton.

Ark., Rogers—G. W. Smith, St. Louis, Mo., acquired monumental stone plant, N. Fourth St., formerly owned and operated by Arch Owens and D. C. Ford.

Florida—Forestry Associates, Inc., syndicate composed of business men in Jacksonville and North Florida, acquired 40,000 acres Levy County; James D. Lacey Co., Barnett Bldg., Jacksonville, retained as manager of tract.

Fla., Crestview—Crescent Tung Oil Plantations, Inc., 1415 Capitol Bldg., 159 N. State St., Chicago, Ill., plant tung trees.

Fla., Jacksonville—Bo-Kay Perfume Co., J. Rouss, Pres., 700 Forest St., acquired adjoining property and will remodel for annex; acquired Talcum Puff Co., 67 35th St., Brooklyn, New York.

Fla., Miami—General Maintenance & Contracting Corp., incorporated; Charles Kalb, 841 W. 70th St.

Fla., Pensacola—Armstrong-Newport Co., W. Main St., let contract to Worden-Allen Co., Milwaukee, Wis., for \$1,000,000 first unit of insulation board plant, including struc. steel, covering, sash and windows; contract for all conc. work let to C. H. Turner Construction Co., Brent Bldg., Pensacola. 11-28

Fla., Sarasota—George D. Lindsay, publisher of Sarasota Herald, acquired Sarasota Times.

Fla., Sebring—Demos Mandis acquired Kenilworth Dairy and Orange Blossom Dairy, distributors for Kenilworth Co.

Ga., Atlanta—Group of Chicago capitalists soon form company to purchase Georgia peaches at orchard, freeze and pack in dry ice for shipment to any part of world; erect 2 to 5 plants in various peach growing sections of state, each costing \$40,000 and will freeze and pack 100 carloads a season; peaches to be peeled and sliced before being frozen and packed for shipment, in 1 and 2-lb. containers.

Ga., Macon—Dixie Ice Cream Co., W. C. Ivey, Gen. Mgr., 316 Cotton Ave., soon let contract for \$75,000 plant, 658 Arch St.; 1 story, 60x100 ft., conc. footings, brick, comp. roof; private plans.

Ga., Vidalia—Vidalia Coca Cola Bottling Co., H. F. Thaxton, McRae, let contract to R. N. McEachern, Douglas, for \$50,000 plant; Pringle & Smith, Archt., Norris Bldg., Atlanta; W. Elliott Dunwoody, Supervising Archt., 460½ Broadway, Macon. 12-12

Ky., Bardwell—Flinne & Lawson plan erecting \$80,000 milk condensing plant; local residents to subscribe to \$37,500 of stock; daily capacity of 100,000 lb.

Ky., Dawson Springs—Dawson Springs Ice & Fuel Co., capital \$20,000, incorporated; F. Y. Batterman, J. R. White. (Recently incorrectly noted under Dawson Springs, Ark.) 11-28

Ky., Louisville—Falls City Ice & Beverage Co., 31st St. and Broadway installing machinery for making high grade ginger ale.

Ky., Louisville—Kentucky Macaroni Co., Floyd St. & Southern R. R., increasing capital stock, \$400,000 to \$500,000.

Ky., Louisville—Kentucky Cheese Co., capital \$15,000, incorporated; R. E. Graves, 1377 Bradstown Rd.

Ky., Louisville—National Dairy Products Corp., 120 Broadway, New York, acquired Frozen Pure Ice Cream Co., ice cream manufacturer, 26th St. and Broadway, Louisville, and Kenmore Barberton Milk Co., Akron, Ohio.

La., Lafayette—Dudley J. LeBlanc let contract to P. Oliver & Son, 114 Bilbo St., Lake Charles, for building, Vermilion and Polk Sts.; 80x75 ft., 1 story, foundation for second story; \$17,000; to be occupied by Tribune Publishing Co., Lafayette Tribune and T. B. A.; G. B. Knapp, Archt.

La., New Orleans—Florida East Coast Car Ferry Service, operating between Key West, Fla., and Havana, Cuba, plans establishing car ferry line between here and Havana; asked Dock Bd. to construct wharfage facilities on Industrial Canal to accommodate boats; ferry to carry 26 cars, or about 910 tons of freight.

La., New Orleans—Sugar By-Products Corp., H. E. Blouin, Pres., Pere Marquette Bldg., definitely decided to erect plant with

daily capacity of 10,000 gal. alcohol from molasses; utilize slop to manufacture by-products, including potash; will recover carbon dioxide generated in fermentation and convert into liquid and solid form; P. A. O'Dell, Engr. 10-17

La., Shreveport—Shreveport Memorial Co., 1067 Jordan St., has low bid from Strubbel McConnell, 3415 Velva St., at \$12,430, for office and shop building, Claiborne Ave.; soon let contract. 11-21

Miss., Jackson—Prism Signal Corp., incorporated; Sr., W. H. Maddox, E. View St., manufacturer and assembler prism glass products, etc.

Miss., McComb—Tuf-Nut Garment Mfg. Co., of Mississippi, capital \$50,000; L. Z. Dickey, X. A. Kramer. 2-14

Miss., Quitman—Southern Butter Co., H. D. Ivy, Mgr., let contract to S. B. Kirkland for brick building.

Mo., Kansas City—Carter Water Corp., E. Kemper, Pres., 2049 Main St., has plans drawn and soon receives bids for \$200,000 office and warehouse, storage tanks for hot asphalt road oils, etc.; Archer & Gloyd, Archt., Parker Bldg. 10-24

Mo., Kansas City—Home Convenience Mfg. Co., 1423 Illinois Ave., formed by Dudley Doolittle and Phil D. Morelock, of Shouse, Doolittle & Morelock, 710 Land Bk. Bldg., to manufacture variety of devices, including garage door opener, hand-operated washing machine, bread "humidor," bread slicing device, etc.; E. B. Jones, Patentee of devices.

Mo., Leeper—Mid-West Charcoal Co., capital \$50,000, incorporated; Jules A. Tremont.

Mo., St. Louis—Standard Waste Products Co., capital \$20,000, incorporated; Julius Pankewer, 1229 N. Sixth St.

Mo., St. Louis—Modern Engineering Co., 3411 Pine St., oxygen, acetylene and electrical welding and cutting equipment manufacturer, acquired site, Pine Blvd., for expansion.

Mo., St. Louis—Bd. of Public Service, E. R. Kinsey, Pres., let contract to Dunham Construction Co., Chemical Bldg., for laundry; 1 story, 31x117 ft.; A. Osburg, Archt., 3654 Meramec St.; L. R. Bowen, Ch. Engr., Dept. of Buildings and Bridges, City Hall; started construction.

Mo., St. Louis—Eden Publishing House, J. P. Hennings, Mgr., 1712-18 Chouteau Ave., let contract after Feb. 15, 1930, for printing plant, Chouteau and Dolman Sts.; Hoener, Baum & Froese, Archts., 3635 Laclede St. 12-12

Mo., St. Louis—Leather Jobbing Co. changed name to Modern Wood Heel Covering Co., L. D. Tobias, Pres., 813 N. 8th St.

Mo., St. Louis—Lazarus Collapsible Hat Tree Co., 1926 Chestnut St., incorporated; Peter L. Lazarus.

Mo., St. Louis—Walker American Corp., Justin T. Flint, Pres., 2665 Morgan St., formed by merger of American Cine Screen Co., 2665 Morgan St., St. Louis, and Walker Screen Co., New York.

Mo., St. Louis—Schroeder & Tremayne Sponge Co., Theodore Schroeder, Pres., 500 N. Commercial St., merged with Atlas Sponge Co., 291 Church St., New York; St. Louis to be headquarters of consolidation.

Mo., St. Louis—Papendick, Inc., Gustave C. Papendick, Pres., 3500 Florissant Ave., organized to manufacture patented bread slicing machine; manufactured under contract by 3 machine shops in city.

N. C., Albemarle—Foremost Dairy Products, Inc., Jacksonville, Fla., reported, erect \$50,000 creamery.

N. C., Charlotte—Dixie Bakery & Pie Co., incorporated; Tom Strat, 913 E. 4th Ave.

N. C., Charlotte—Coca-Cola Bottling Co., 211 N. Graham St., preparing plans for \$75,000 plant.

N. C., Goldsboro—Lay-More Tile Mfg. Co., Faison, erect plant.

N. C., Hickory—Hickory Record, Inc., capital \$100,000, chartered; J. C. Miller, E. C. Menzies.

N. C., Wilson—Carolina Creamery, Inc., capital \$150,000, formed with J. B. Boldridge, Pres., plans securing location, installing necessary machinery and beginning operations Jan. 15.

Okla., Ardmore—Following have sub-contracts for \$150,000 produce plant of Swift & Co., Stock Yards Station, Fort Worth, and Union Stock Yards, Chicago, Ill.: Millwork, Hudson-Houston Lumber Co.; lath and



plaster, S. E. Grieder; lumber, Chickasha Lumber Co.; painting and glazing, M. G. McKinsey, all Ardmore; steel, Southwestern Steel & Iron Co., 708 N. Main St.; plumbing and wiring, Schmidt Plumbing Co., 209 W. 11th St., both Fort Worth, Tex.; sand and gravel, Makins Sand & Gravel Co., Commerce Exchange Bldg., Oklahoma City; private plans; James Taylor Contracting Co., Gen. Contr., First Natl. Bank Bldg., Fort Worth, Tex. 10-10

Okla., Oklahoma City—Continental Baking Co. receiving bids, no date set for closing for addition and remodeling bakery; 2 story, brick, rein. conc., 75x140 ft.; Walter Vahlberg, Archt., Braniff Bldg. 11-28

Okla., Oklahoma City—Sterling Milk Co., 322 N. Western St., let contract to C. G. Beveridge, 601 W. 34th St., for repairing building, 322 N. Western Ave.; \$10,000.

Okla., Tulsa—Midwest Equitable Meter Co., capital \$50,000, incorporated; Edmund Lashley, Kennedy Bldg.

Okla., Tulsa—Pittsburgh Equitable Meter Co., Kennedy Bldg., broke ground for plant, Sand Springs Rd.; brick, steel, stucco, walls principally of glass, sawtooth roof, steel sash. 10-17

Tenn., Dyersburg—City Club, Vern Forcum, Pres., plans stock company to erect garment plant.

Tenn., Jackson — Star Laundry erecting \$22,000 addition to dry cleaning plant, S. Market St.

Tenn., Jackson — Coca-Cola Bottling Co. start erecting \$25,000 addition to plant first of year.

Tenn., Jackson—American Creosote Works, Inc., M. L. Pennington, Gen. Mgr., Columbia Bldg., Louisville, Ky., soon erect \$300,000 plant unit consisting of 8 buildings; steel conc., brick; have capacity of 2,000,000 ft. lumber monthly; constructing spur tracks.

Tenn., Johnson City — Skelton's Bakery, capital \$15,000, incorporated; J. W. Till, J. L. Skelton.

Tenn., Memphis—Duntreath Farm, McCormack Agency, Dermom Bldg., will call new bids on revised plans for dairy; 1 story, 25x125 ft., corrugated iron, steel sash, conc. and wood floors.

Tenn., Memphis—Dr. Pepper Co., J. W. Link, Pres., Dallas, Tex., erect \$200,000 soft drink plant, to begin operations shortly after Jan. 1, in building, Madison Ave. and Manassas St.; select site early in 1930 for unit to manufacture Dr. Pepper's syrup for consumption in bottling plant and for distribution to other branch bottling plants in Nashville; Birmingham, St. Louis, and New Orleans, La.; each plant to involve initial expenditure in machinery and equipment of \$100,000.

Tenn., Memphis—Abraham Bros. Packing Co., Samuel Abraham, Pres., 705 S. Dudley St., let contract to Joe Lazarov, 893 Maury St., for \$12,000 meat packing plant addition; 1 story, brick, comp., built-up roof, conc. and wood floors, misc. steel and iron; private plans.

Tenn., Springfield — Springfield Laundry, incorporated; Frank Bell, Maynard C. Jenkins.

Tex., Beaumont—Beaumont Coca-Cola Bottling Co., 795 Main St., erect \$150,000 bottling plant, Mariposa and Ashley St.; 420x200 ft., brick; plans by company engineers, Atlanta, Ga.

Tex., Corpus Christi—Texas Laundry, L. M. Thilbert Amusu Bldg., let contract to American Laundry Machine Co., 633 S. Wash Ave., Chicago, Ill., and Kansas City, Mo., for installing machinery in laundry, Staples St.

Tex., El Paso—City plans police alarm system.

Tex., El Paso—Anderson Bros. Construction Co., capital \$80,000, incorporated; R. S. Anderson, 2710 San Diego St.

Tex., Fort Worth—Foremost Dairy Products, Inc., Jacksonville, Fla., erect \$250,000 addition to Shaw Bros. Creamery, 315 S. Calhoun St. and establish model dairy demonstration farm near city.

Tex., Houston — Shepherd Laundries remodel building, Melmar St. near Washington Ave.; 90x88 ft.; add basement and third story to 2-story building; J. W. Dehnert, Archt., Esperson Bldg.; \$30,000.

Tex., Sherman—Blair & Son Medicine Co., Inc., capital \$30,000, chartered; J. C. Blair; manufacturing.

Va., Richmond—P. Lorillard Tobacco Co., 2300 E. Cary St., let contract to John T.

Wilson, Mutual Bldg., for \$57,000 addition to plant, 24th and Cary St.; 3 story, 53x185 ft.; Carneal Johnston & Wright, Archt., Electric Bldg.

Va. Richmond — Following have sub-contracts for \$750,000 cigarette plant of American Tobacco Co., 26th and Cary St., Richmond, and 111 Fifth Ave., New York; Struc. steel, Richmond Structural Steel Co., 17th & Dock Sts.; orna. terra cotta, Federal Seaboard Terra Cotta Co., New York, through Henry O'Grady Mutual Bldg.; excavations, K. L. Black & Co. 1314 Grayland Ave.; rein. steel for footings, Virginia Steel Co., 17th & Dock Sts.; brick work, Duke, Carter & Page; elevator, Otis Elevator Co., all Richmond; probably let conc. work contract in few days; heating, plumbing, electrical not awarded; Wise Granite & Construction Co., Gen. Contr., American Natl. Bank Bldg.; J. E. Sitrone & Co., Engr., 215 S. Main St., Greenville, S. C. 11-28

W. V., Parkersburg—Vitolite Co., George R. Meyers, Pres., 120 S. LaSalle St., Chicago, Ill., reported, may enlarge plant, H. A. Fisher, Local Plant Mgr.

W. Va., Wheeling—B. B. Leaf Tobacco Co., capital \$100,000, incorporated; William F. Laue, 218 N. Erie St.

W. Va., Wheeling — Western Stemmy, Inc., capital \$100,000, chartered; A. W. Laas, Central Union Bldg.

### Motor Bus Lines and Terminals

Md., Cumberland—Potomac Edison Co., P. Paul Smith, V.-Pres., Hagerstown, substitute motor buses for street cars next year; install about 12 additional buses.

Oklahoma—Southwest Missouri R. R. Co., F. C. Walflower, Receiver ad Mgr., Joplin, Mo., authorized by Corporation Comm. to operate motor freight trucks between Miami and Oklahoma-Kansas line.

Okla. Arkmore — B. J. Jordan, Durant, acquired bus line, Waurika to Ardmore, Okla., and Ardmore, to Vernon, Tex., and Western Transportation line, Haulton to Waurika.

Tenn., Nashville — Union Bus Terminal, Inc., C. R. Quarles, Pres., plans \$250,000 bus terminal Commerce St. and Sixth Ave.; 2 story, modern, black brick, gold terra cotta, 174x90 ft.; soon receive bids; Marr & Holman, Archts., Stahlman Bldg.

Va., Middleboro—R. B. Sutton, Bristol, acquired Virginia-Lee bus line, operating, Middleboro to Norton.

### Railways

Ga., Atlanta—See Miscellaneous Construction.

Ky., Louisville—Louisville & Nashville R. R. Co., A. T. Shanks, Pur. Agt., reported, expend \$3,200,000 for new rail automatic signal and other work early in 1930 in addition to \$5,250,000 authorized for equipment; includes purchase of 64,000 tons rail of 100-lb. sections for maintenance and improvement; W. R. Cole, Pres., advises plans purchasing 1500 box cars and other equipment; invitations for bids have been sent out; probably call for bids around first of year. 11-28

Md., St. Louis—St. Louis-San Francisco Ry., J. M. Kurn, Pres., reported, expend \$24,127,177 in 1930 for roadway and structures, new construction and equipment; roadway and structures, \$9,402,478, \$2,210,000 of this for 175 mi. new rails; \$1,646,460 for new line, Vernon to Seymour, Tex.; 15-mi. extension on Matador branch of Quanah, Acme & Pacific Ry. Co., a subsidiary, into Motley County, Tex., \$300,000; 7½-mi. line, Quanah to Acme, \$214,475; separation of grade crossings, \$500,000; \$12,563,053 for new equipment. 11-28

Mo., Palo—Chicago, Rock Island & Pacific Ry. Co., W. H. Petersen, Ch. Engr., Chicago, Ill., reported, let contract to Clinch-Mitchell Construction Co., 176 W. Adams St., Chicago, Ill., for new single-track line, Nettleton to Polo, 18 mi., second section of new line, Coburn to Kansas City. 10-24

Mo., St. Louis—Missouri Pacific R. R. Co., W. A. Hopkins, Gen. Pur. Agt., reported, ordered 625 box cars from Mount Vernon Car Co., Mount Vernon, Ill., and 625 box and 35 caboose cars from American Car & Foundry Co., 30 Church St., New York.

Mo., St. Louis — Chicago, Burlington & Quincy R. R. Co., J. R. Haynes, Pur. Agt., Chicago, Ill., reported, ordered 12 Pacific type locomotives from Baldwin Locomotive Works, 123 S. Broad St., Philadelphia, Pa.

Texas—Atchison, Topeka & Santa Fe Ry., M. J. Collins, Gen. Pur. Agt., Chicago, Ill., ordered locomotive from Baldwin Locomotive Works, 123 S. Broad St., Philadelphia, Pa.

Texas—Missouri-Kansas Texas R. R. Co., H. E. McGee, V.-Pres. and Gen. Mgr., Dallas,

reported, expend approx. \$7,000,000 for improvements; construct 500 coal cars at shops Denison; purchase 100 heavy coal cars; install additional automatic signals on main lines, \$500,000; lay heavier rails and put down ballasting on several important divisions of system; eliminate grade crossings and numerous wooden bridges will be replaced by conc. structures.

Tex., Houston—Southern Pacific Lines, R. W. Barnes, Ch. Engr., let contract to C. K. Horton, Garden Court Apts., for lowering grade of San Antonio & Aransas Pass Ry.; track leveling area extends 12,000 ft. and rails to be lowered from maximum of 4½ ft. above street level to maximum of 1½ ft.; leveling and replacing paving across right of way, \$55,000.

Tex., San Antonio—Ed Kennedy, 1014 Austin Ave., Houston, start engineering construction work on new short-line line, Corpus Christi deepwater terminal 300 mi. to San Angelo, within 20 days; Blanton Banking Co., Scanlon Bldg., Houston, contracted with New York house to finance first 50 mi. of line by underwriting \$1,500,000 in bonds; necessary right of way secured through Texas counties and large acreage purchased in McCullen, Frio, Uvalde, Bandero, Kerr, Kimble, Menard, Concho and Tom Green Counties for townsites; eventually extend line to Roswell, N. M.

Tex., Seagraves—South Plains & Santa Fe R. R., Lubbock, leased to Panhandle & Santa Fe Ry. Co., G. W. Harris, Ch. Engr., Chicago, Ill., authorized by Interstate Commerce Comm., Washington, to extend lines, Seagraves, Gaines County, Tex., about 46 mi. to Lovington, N. M.; application for branch line, Lovington south about 43 mi. denied.

Va. Richmond—Richmond, Fredericksburg & Potomac R. R. Co., E. Hutton, Jr., Pres., reported, expend \$1,000,000 in 1930 for new construction, \$100,000 warehouse to be built here.

Va., Winchester—Winchester & Wardensville R. R., recently organized; applied to Interstate Commerce Comm., Washington, for permission to operate 38-mi. line, Winchester, Va., to Wardensville, W. Va., formerly operated by Winchester & Western R. R. Winchester.

West Virginia—Greenbrier, Cheat & Elk R. R., subsidiary of Western Maryland Ry. Co., M. C. Byers, Ch. of Bd and Pres., Baltimore, Md., reported, authorized by Interstate Commerce Comm., Washington, D. C., to acquire West Virginia Midland Ry. Co., F. Pardee, Pres., Clarksburg, in Webster County, and to issue \$650,000 bonds of latter road in payment.

### Railway Shops and Terminals

Mo., Springfield—St. Louis-San Francisco Ry., F. G. Jonah, Ch. Engr., St. Louis, Mo., reported, expend \$1,856,000 early in 1930 for concentration of all shops on site of present west shop plant; abandon north shops and present yards north of Commercial street between Blvd. and Broadway and establish large terminal adjacent to west shop; classification yards to extend 2½ mi. south of shops and accommodate 150-car trains.

Mo., St. Louis—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., reported, plans \$600,000 engine terminal and repair shops, near Nicholson and Topping Ave.

### Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

#### Proposed Construction

Ala., Athens—State Highway Comm., Montgomery, considering paving 6 mi. Bee Line Highway in Limestone County.

Ala., Birmingham—City Comm. plans expending \$41,350 to pave Twenty-second St. across railroad tracks, from Eighth to Twelfth Ave., North; A. J. Hawkins, City Engr.

Ala., Huntsville — State Highway Comm., Montgomery, completing survey for proposed highway between Huntsville, Madison County and Decatur, Morgan County.

Ala., Mobile—Mobile County Bd. of Revenue plans receiving bids in Jan. to pave 28 mi. Tanner-Williams and Citronelle to Mount Vernon Roads; total cost about \$250,000; John R. Peavy, County Engr. 12-5

Ala., Mobile—Mobile County Bd. of Revenue, considering paving road from Grand

Bay to Bayou in Batre; John R. Peavy, County Engr.

Ala., Montgomery — City Comm., W. A. Gunter, Mayor, plans receiving bids soon for  $\frac{3}{4}$  mi. 20 to 25-ft. strip paving on Woodley road, between Cloverdale road and Narrow Lane road; J. M. Garrett, City Engr.

Ala., Tarrant, Birmingham — City, Wallace Wells, Clk., plans receiving bids after Jan. 2 for \$51,000 conc. paving, including 8 blocks on Jackson Ave. and Elizabeth St.; will sell bonds.

Ark., Fayetteville — City, T. S. Tribble, Mayor, contemplates forming improvement dist.; widen East Dickson St. 7 ft., lay conc. gutter; may resurface street.

Ark., Fayetteville — City, Dist. No. 43, Homer Jackson, Clk., considering paving Watson St., St. Charles to N. West St.; Dist. No. 42 receives bids soon to grade, drain, curb and gutter and pave about 3 blocks School St.; Emmett Ratcliff, City Engr.

Fla., Jacksonville — Duval County Commrs. plan  $4\frac{1}{2}$  mi. grading, etc., Gainesville road, from end of brick pavement, near Hammond Ave. through to Chaffee road; J. A. Melson, Supt. of Roads and Bridges; F. M. Edwards, County Engr.

Ark., Rogers — City, J. H. Hood, Mayor, forming district for 32 blocks of paving on Third, Fourth, Fifth and cross streets. 12-12

Fla., Gainesville — Alachua County Bd. of Bond Trustees, Special Road and Bridge Dist. No. 1, W. R. Thomas, Chmn., receives bids Dec. 20 for 17,500 cu. yd. excavation, 23,000 sq. yd. 8-in. compacted lime base and single surface treatment, 7300 lb. rein. steel; Henry L. Baker, Dist. Engr.

Fla., South Jacksonville, Jacksonville — City Council considering 6-in. conc. paving with integral curbs, in Unit No. 1, First Addition to San Marco; Marcel Mazeau, City Engr.

Ga., Atlanta — City Council, I. N. Ragsdale, Mayor, considering widening Whitehall St. to 80 ft., with 62-ft. roadway, and 9-ft. sidewalks, between Spring St. and Stewart Ave.; estimated total cost \$144,762; Clarke Donaldson, Ch. of Construction.

Ga., Augusta — Richmond County Commrs., Frank H. Turner, Chmn. of Roads and Bridges Committee, considering 3 highways out of Augusta: Hard surface Peach Orchard Road; Old Savannah road to McBean, Ga.; Milledgeville road, through Thomson to Washington, Ga.; also reconstruct bridge and section of road above Belair, Ga. on Milledgeville road.

Ga., Dallas — Town plans baby bond plan for street paving.

Ga., Fort Benning — W. M. Allison, Constructing Quartermaster, receives bids in about 20 days for  $\frac{1}{4}$  mi. conc. roadway and grading and sodding area between wings of Twenty-ninth Infantry barracks; cost \$30,000.

Ga., Thomaston — City received low bid from Hooks Construction Co., Montgomery, Ala., \$29,435, for 17,270 sq. yd. 6-in. conc. paving, 1,500 sq. yd. conc. sidewalks, conc. curb and storm sewers; Robert A. Conslt. Engr., 706 Bona Allen Bldg., Atlanta.

Kentucky — State Highway Comm., James A. Scott, Chmn., Frankfort, received low bid for 3 roads: Shelby County — 2.698 mi. grade, drain, Shelbyville — LaGrange road, Southeastern Construction Co., Eminence, \$36,008; Wolfe County — 1.335 mi. grade, drain Stillwater-Mize road, H. H. Miller Construction Co., Jackson, \$18,154; 4.083 mi. grade, drain, Stillwater-Mize road, North Fork Construction Co., Jackson, \$44,957; Palmore, State Highway Engr. 11-7, 11-21.

Ky., Murray — State Highway Comm., Frankfort, making survey for state highway from Murray, Calloway County, through Concord to Tennessee line; C. E. Pack, reported, in charge of locating engineers; contract probably let next spring for grading and draining; T. R. Jones, County Judge.

Louisiana — Louisiana Highway Comm., Baton Rouge, received low bids for 11 roads, 3 bridges and drainage structures: Calcasieu Parish — 12 mi. conc., Lake Charles — Sulphur Highway, Moore Bros., Inc., Westwego, New Orleans, \$364,867; Grant Parish — 6.5 mi. conc., Colfax-Alaha Highway, Mills Engineering Construction Co., Alexandria, \$166,549; St. Landry Parish — 12 mi. conc., Morrow-Lebeau Highway, James Stanton & Son Construction Co., Leavenworth, Kan., \$208,473; Ouachita Parish — 7 mi. conc., Sicard-Crew Lake Highway, Nattin and Murtishaw, Houma, \$159,334; Tangipahoa Parish — 6.7 mi. conc., Pouchatoula-Hammond Highway, Moore Brothers, Inc., \$168,913; West Carroll Parish — 2.5

mi. conc., Oak Grove-Forest Highway, Madison Construction Co., Edwardsville, Ill., \$58,277; St. Tammany Parish — 14.545 mi. conc., Rigolets-Slidel-East Pearl River Highway, Robert G. Lassiter & Co., Citizens Bk. Bldg., Raleigh, N. C., \$270,088; Richland Parish — 7.4 mi. grading, draining, Crew Lake-Rayville Highway, Standard Highway Co., Baton Rouge, \$53,280; Sabine Parish — 8.1 mi. conc., Many-Florien Highway, Madison Construction Co., \$212,302; Bossier Parish — 9.6 mi. conc., Taylortown-Atkins Highway, Turk Construction Co., Arcadia, \$199,055; Orleans Parish — 8.408 mi. conc., between Chef Menteur and Rigolets, Koss Construction Co., Des Moines, Iowa, \$201,665; Claiborne Parish — pile trestle on Cross Roads-Wesley Chapel Highway, Williams & Gray, Arcadia; St. Helena Parish — drainage structure on Baton Rouge-Amite Highway section, Ed. Pettus, Montgomery, Ala., \$24,042; Rapides Parish — creosoted pile bridge with earth approaches over Ten-Mile creek, Pitkin-Glenmora Highway, J. A. Hanchey, Mittle, \$9,016; H. B. Henderlite, State Highway Engr. 11-14, 11-21

La., Independence — E. G. Frelief, Engr., Hammond, La., preparing plans for paving 5 additional blocks of streets; Ivy N. Stafford, Town Clk.

La., Rayville — Town, Mayor and Bd. of Aldermen, receive bids Dec. 23 for 1,733 sq. yd. Warrenite wearing surface, 1,733 sq. yd. paving, 1,200 lin. ft. conc. curb and gutter, sewers, etc. on Rhymes St. Pearl to Spencer; M. L. Culley, Engr., Jackson, Miss.

La., Shreveport — City Commrs. received low bid from Emmett Cochran, for rock asphalt paving on Magnolia St., and on Thornhill St.

Md., Baltimore — City plans widening Philadelphia road, 24 to 48 ft., Haven to Monument St.; Nathan L. Smith, Highways Engr.

Md., Cumberland — City Council considering repaving Maryland Ave.; cost \$37,192; Ralph L. Rizer, City Engr.

Md., Hagerstown — Washington County Commrs. plan building 5 roads in 1930 totaling about 9 mi.; \$164,000 available: Sharpsburg-Burnside Bridge road; Fort Frederick; Weaverston Hill; extend Greencastle-Williamsport pike; Woodmont Rod and Gun Club road.

Miss., Hazlehurst — City Council considering expending \$60,000 to pave E. Railroad Ave., Georgetown and Damascus St.

Miss., Hollandale — Town, Mayor and Bd. of Aldermen, receive bids Jan. 2 for 1650 lin. ft. conc. sidewalks, 4 ft. wide, and street crossings, paving; Duncan Cope, Town Clk.

Miss., Holly Springs — Town, Mayor and Bd. of Aldermen, receive bids Jan. 6 for 1,545 cu. yd. excavation, 2,450 sq. yd. 6-in. conc. paving, 2,750 lin. ft. combined curb and gutter, drains, etc.; under Improvement Ordinance No. 159.

Miss., Laurel — City will re-surface various streets including Front St., and portions of Magnolia and Central Ave.; Paul C. Klyce, City Engr.

Miss., Rolling Fork — Sharkey County Bd. of Supvrs., W. H. Carroll, County Clk., receives bids Jan. 6 for dirt work on Louise cut off road, in Fourth Separate Road Dist.

Miss., Natchez — State Highway Comm., Jackson, making survey for hard-surfacing Highway No. 61, Adams County, between Natchez and Selma.

Miss., Vicksburg — Warren County Highway Comm. receives bids Dec. 28 to gravel 3.8 mi. Russellville road, from point near Oak Bridge to point near Russellville, Fifth Dist.; 3,500 cu. yd. gravel.

Miss., West Point — Clay County Bd. of Supvrs. may expend \$400,000 to gravel and improve various roads. See Financial News Columns. 11-14

Miss., Yazoo City — City, Mayor and Bd. of Aldermen, plan letting contract in Jan. for street paving.

Mo., Clayton, St. Louis — St. Louis County receives bids Dec. 24 to improve Laclede Station road, Lockwood road, Birdie Ave. and Brown road, Bellefontaine Church and Coal Bank roads; Roy Jablonsky, Highway Engr.

Mo., Jackson — City Council Street Committee, considering plans to widen or improve First East St. from First North St. to southern city limits; considering plans for wide, ornamental conc. bridge over Hubble Creek on West Main St.

Mo., Jefferson City — City, Earl W. Jenkins, Mayor, plans expending \$30,000 for repair and improvement of streets during 1930; considering widening High St., Washington to Adams.

Mo., St. Louis — City, Bd. of Public Service, considering widening McCausland Ave., 60 to 80 ft., Manchester to Clayton Ave.; will extend McCausland Ave. southward, from Manchester Ave. to connect with new Arsenal St. viaduct, and proposed River Des Peres Drive; W. W. Horner, City Engr.

Mo., St. Louis — City, Bd. of Public Service, plans expending \$293,202 to pave 10 streets with sheet asphalt.

North Carolina — State Highway Comm., Raleigh, plans expending \$10,500,000 for highway work in 1930.

N. C., Greensboro — City considering widening Gaston St., Davie to Eugene St.

Oklahoma — State Highway Comm., Oklahoma City plans expending \$12,000,000, during 1930 for highway work; county and township boards will expend additional \$1,000,000.

Oklahoma — State Highway Comm., Oklahoma City, plans receiving bids before Jan. 1 for grading and draining 6 highways; A. R. Losh, Ch. Highway Engr.

Okl., Oklahoma City — Oklahoma County, J. W. Berry, Clk., received low bid from Maney & Alley, Empire Bldg., Oklahoma City, for 8 mi. gravel road in Oklahoma City; B. R. Murphey, County Engr.

South Carolina — State Highway Comm., Columbia, will rebuild "Historic King's Highway" along Atlantic Coast, from Wilmington, N. C. to Charleston, S. C.; Atlantic Coastal Highway Assn. sponsoring project.

S. C., Charleston — City Council considering paving roadway on Moultrie St., Rutledge to Elmwood Ave., paving sidewalks on Cleveland and Rutledge Ave. and St. Philip St.

Tennessee — Dept. of Highways and Public Works, Nashville, plans during 1930, 400 mi. grading, drainage; 300 mi. plain conc. paving, 100 mi. conc. base, asphalt top paving; T. E. McEwen, State Highway Engr.

Tenn., Cleveland — City Council plans widening Wildwood Ave. at Inman St., and improve curve.

Tenn., Knoxville — City Plan Comm., Frank Jones, Engr., considering widening various downtown and residential streets, including Broadway and Central Ave.

Texas — State Highway Comm., Austin, appropriated funds and granted state aid to Madison, Henderson, Van Zandt, Dickens, Cherokee, Goliad, Eastland and Erath, Travis, Bastrop, Grayson, Ellis, Hardin, Houston, Guadalupe, Kinney, Newton, Coleman, Upton and Wilson Counties, for road, overpass and bridge work; Gibb Gilchrist, State Highway Engr.

Tex., Anson — Jones County, Owen Thomas, Judge, plans 18.281 mi. grading, draining, Highway No. 4, Taylor County line to Anson, estimated cost \$137,500; W. J. Van London, Res. Engr., Abilene.

Tex., Bay City — Matagorda County, A. Harris, Judge, plans .752 mi. rein. conc., Highway No. 58, Tres Palacios Creek to point beyond L. & B. M. Ry. underpass; E. N. Gustafson, Res. Engr.

Tex., Beaumont — City, J. W. Anderson, Mgr., plans paving 4 blocks on Ninth St., one block on South, shelling 4 blocks on Tenth and 2 blocks on Smart St.; R. C. Black, City Engr.

Tex., Brownwood — City plans street paving, storm sewers, public parks, etc., in South Brownwood.

Tex., Brownsville — Cameron County, Oscar C. Dancy, Judge, plans 12.5 mi. 18-ft. rein. conc., Highway No. 100, point east of Los Fresnos to Point Isabel, estimated cost \$135,000; W. O. Worthington, County Engr.

Tex., Colorado — Mitchell County plans expending \$750,000 to complete 20 mi. Bankhead Highway across county; city and Mitchell County plan expending \$3,000,000, during 1930 for public improvements.

Tex., Dallas — City, R. A. Wylie, Street Commr., considering widening North Ervay St., 20 ft., from Pacific to Ross Ave.; John M. Young, City Engr.



Tex., El Paso—El Paso County Comrs. Court receives bids Jan. 13 for Fred Wilson road, to municipal airport, 18-ft. bitulithic or conc., with 6-ft. gravel shoulders; \$550,000 available; E. B. McClintock, County Judge.

Tex., Fort Worth—Tarrant County Comrs. Court plans widening Fort Worth-Dallas Pike, from "Death Crossing" to Dallas County line; Damon Davis, County Engr., preparing plans for widening Fort Worth-Dallas Pike road, 21 to 52 ft., Arlington; will let contract in Dec. for grading and paving; County Engr. preparing plans for paving approaches of new Lake Worth Bridge on Fort Worth-Northwest Highway; State Highway Comm., Austin, probably let contract in Jan. for paving.

Tex., Fort Worth—M. C. Welborn, Res. Engr., of State Highway Comm., Austin, tentatively approved proposed route for new 14 mi. Keller cardinal Highway from city limits of Fort Worth to Keller, Tarrant County; 20-ft. pavement on 100-ft. right of way; straighten curves; replace present narrow road; Damon Davis, County Engr.

Tex., Houston — City, Walter E. Monteith, Mayor, plans expending \$10,100 to improve 3 streets in Kensington or Edmundson's Fifth Addition; probably receive bids soon to pave and widen to 70 ft., Harrisburg Blvd., from Houston Belt & Terminal tracks to Sixty-seventh St.; to 60 ft., from Sixty-seventh St. to point east of Broadway; estimated cost \$300,000; Harris County to pay \$50,000; H. L. Shaw, City Engr.

Tex., Lefors—Gray County plans expending \$250,000 in 1930 for highway paving; city of Pampa plans expending \$250,000 for street paving.

Tex., Port Arthur — City Comm., H. F. Drunagle, Commr. of Streets, considering repairing Tenth and Fifteenth St.; recently voted bonds; W. O. Bower, City Engr. 12-5

Tex., Rankin—Upton County, C. H. Latson, Judge, plans 4.914 mi. grading, draining, Highway No. 99, Crane County line to McCamey; P. H. Caldwell, Res. Engr., Crane.

Tex., Rosebud—City considering expending \$30,000 for street paving. See Financial News Columns.

Tex., San Antonio—Bexar County, Perry S. Robertson, County Judge, received low bids for 3 roads in Precinct No. 3: Walzem road, Austin road to Gibbs Sprawl road, Colglazier & Hoff, Inc., 125 Crosby St., Wetmore road, Bitters road to Highway No. 108, Alamo Paving Co., 321 Dawson St., \$10,521; Gibbs Sprawl road, Walzem to Converse, Colglazier & Hoff, Inc., \$9,671; W. S. Kendall, County Auditor. 11-21

Tex., San Antonio—Bexar County, Perry S. Robertson, Judge, receives bids Dec. 21 for 4,050 ft. sidewalk on Court House property; W. S. Kendall, County Auditor.

Tex., Sherman—City, Jess S. Eubank, Mayor, plans expending \$125,000 to pave various streets, reconstruct bridges and pave connections from local streets to highway pavement, including 1-span conc. bridge on East Odneal St. See Financial News Columns.

Tex., Smithville — State Highway Comm., Austin, considering proposed highway from Smithville, Bastrop County to San Marcos, Hays County, via Lockhart; Gibb Gilchrist, State Highway Engr., making investigation.

Tex., Victoria—D. K. Shepard, Res. County Engr., preparing plans for Highway No. 113, from Victoria to Refugio County line; from DeWitt to Calhoun County line; J. Highway No. 29, through Victoria County, J. Woodhouse, Victoria County Judge.

Tex., Woodville—Tyler County, J. E. Sturrock, Judge, plans 17.071 mi. grading, draining, Highway No. 106, Polk County line to Woodville, estimated cost \$255,000; Exline Martin, Res. Engr.

Virginia—State Highway Comm., Richmond received low bids for 2 roads: Tazewell County—889 mi. macad., Route 112, R. H. Bolling, Norton, \$9,197; Smythe and Washington Counties—1.821 mi. 18-ft. bit. macad., Route 10, R. H. Bolling, \$63,713; C. S. Mullen, Ch. Engr. 11-28

Va., Danville—City Council plans expending about \$80,000 for street improvements, including paving business section of Main St. See Financial News Columns.

W. Va., Charleston—Kanawha County Road Engr., prepared plans for 12 mi. road up Cabin Creek, diverting from lines of present road at several points.

W. Va., Parkersburg—City, Allen C. Murdoch, Mayor, considering expending \$500,000 for street paving. See Financial News Columns.

W. Va., Williamson — State Road Comm., Charleston, will complete graveling State Route No. 8, between Justice and Jaeger, Mingo County; S. E. Bradley, Asst. State Road Engr., Huntington Div.

#### Contracts Awarded

Ga., Columbus—City, Henry B. Crawford Mgr., let contracts, totaling \$44,897, to Campbell Contracting Co., 1312 10th Ave., Columbus; to pave Thirteenth St., Wynnion road and River road; to Barlow-Gordy Contracting Co., Garrard Bldg., Columbus, \$10,964, to pave Tenth Ave.; G. N. Mitchan, City Engr. 11-21

Ky., Grayson—State Highway Comm., Frankfort, let contract to Combs Construction Co., Lexington, \$54,708, for 5.5 mi. grade, drain, Grayson-Carter City road, Carter County; H. D. Palmore, State Highway Engr. 10-24

Md., Baltimore—P. Flanagan & Sons, Harford road and B. & O. R. R., have contract \$32,782, for 14,200 sq. yd. paving, Cont. No. 540; Nathan L. Smith, Highways Engr.

Miss., Collins—Covington County Bd. of Supvrs., Bob Graham, Clk., let contract to E. E. Lovell, for 12 mi. paving.

Miss., Waynesboro—Town, M. D. Holcombe, Clk., let contract to Cotton States Construction Co., Birmingham, Ala., for 10,350 sq. yd. paving, 1250 lin. ft. 12 to 18-in. storm sewers, catch basins, grading, etc.; Culley O'Brien Engineering, Inc., 301 Standard Life Bldg., Jackson.

Okla., Barnsdall—City, O. E. Cox, Clk., let contract to C. A. Haggert, Fairfax, \$7,008, for 2,652 sq. yd. 6-in. conc. paving, Dist. No. 6; V. V. Long & Co., Engrs., Colcord Bldg., Oklahoma City.

Okla., Chickasha—City, C. A. Chincholl, Clk., let contract to Edmiston Construction Co., Chickasha, \$60,474, to widen Fourth St. and pave Florida Ave.; R. W. Bradley, Engr.

Okla., Lawton—National Construction Co., Lawton, has contract, \$103,716, for 42,647 sq. yd. 6-in. conc. paving, Dist. 23 and 24.

Okla., Oklahoma City—Oklahoma County, J. W. Berry, Clk., let contract to Mann Construction Co., Petroleum Bldg., Oklahoma City, \$17,532, for 8 mi. gravel, Oklahoma City.

Okla., Oklahoma City—City, M. Peshek, Clk., reported, let contract to E. W. Baker, 200 W. Tenth St., Oklahoma City, \$39,913, for 7-in. conc. paving, etc., on Harvey St.; M. A. Swatek Construction Co., 519½ W. Main St., \$32,816, for Thirteenth and Fourteenth St. and at \$3,520 to pave Virginia Ave.; to E. W. Baker, \$27,048, for South Forty-fourth St.; W. W. Small, City Engr.

Okla., Shawnee—City, J. C. Coleman, Clk., let contract to Carl Pleasant, Inc., 229 N. Nogales St., Tulsa, \$26,947, for 6,432 yd. 7-in. conc. paving in Dist. No. 82.

Okla., Stillwell—City let contract to Dick & Co., Continental Bldg., Oklahoma City, \$18,630, for 6,230 yd. 5-in. conc. paving, Division St.; Holway Engineering Co., 15 West 7th St., Tulsa.

Okla., Tulsa—City, Dan W. Patton, Mayor, let contract to H. L. Cannady Co., 1115 S. Lewis St., \$77,368, to pave Forest Hills Blvd. and Yorktown Ave.; to Porter Construction Co., Lewis and Frisco Tracks, \$12,518, to pave Oklahoma St.; K. R. Teis, City Engr.

Tex., Dallas—Dallas County Court let contract to C. A. and J. W. Vilbig, Jr., 2517 Eakin St., \$18,676, to grade and pave Bachman Dr. with 40-ft. conc. slab, from point east of Katy R. R.-Maple Ave. crossing to point west of crossing. 11-14

Tex., Houston — City, W. E. Monteith, Mayor, let contract to Gulf Bitulithic Co., 2820 Polk St., \$148,126, to pave Yale St., asphaltic conc., Washington Ave. to Twenty-second St.; H. L. Shaw, Engr. 12-12

#### Sewer Construction

**Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.**

Ark., Bald Knob—Sewer Improvement Dist. No. 1, J. G. Adams, Sec., receives bids Dec. 23 for material and construction sanitary sewer system. See Want Section—Bids Asked. 12-5

Ark., Berryville — City, reported, plans sewers and water works; cost \$75,000.

Ark., Fordyce — City, reported, plans installing sanitary sewer system in South Fordyce.

Ark., Leachville—See Water Works.

D. C., Washington—Peter D'Adamo Construction Co., reported, has contract at \$20,738 for Stockfoot Branch stormwater sewer, S. E.

Fla., Miami—City Comsn. will have comprehensive plans for drainage system made by Ernest Cotton, Public Service Director, to prevent flood condition; may divert Tamiami Canal into Snapper Creek canal.

Ga., Atlanta — Sewer Committee of City Council, Clarke Donaldson, Ch. of Construction reported, approved award of contract to Whitman, Requaardt & Smith, Baltimore Trust Bldg., Baltimore, Md., for sewer survey. 12-5

La., Columbia—Donald O'Neal and associates, Athletic Bldg., Dallas, Tex., reported, install sewer system; start preliminary survey soon. 12-5

Md., Baltimore—Bd. of Awards receives bids Dec. 26 for storm drains, Storm Water Cont. 138. See Want Section—Bids Asked.

Miss., Hattiesburg — City, S. F. Hatum, Mayor, reported, opens bids Jan. 21 for \$400,000 sewer work; soon call for bids for water system; Thomas H. Allen, Consult. Engr. 10-17

Mo., Jefferson City—City plans sewer construction.

Mo., Maplewood, St. Louis—Bd. of Aldermen, reported, received low bid from C. L. Kelly, Kirkwood, for improvements to Southwest Ave. Sewer Dist.

Okla., Tulsa—Fike & Frye, 2531 E. Independence St., Tulsa, reported, has contract at \$23,419 for sanitary sewers in Dist. No. 292 Bren-Rose Addition; R. K. Teis, Engr.

Okla., Tulsa—City, reported, plans extending sewers in Winterview St., Mohawk Blvd., portion of Cincinnati St. 12-5

Tex., Austin—City, reported, plans \$175,000 sewer expenditure in 1930; Hans F. Heland, Bond Engr.

Tex., Brownwood—City, reported, plans \$100,000 sewage disposal plant.

Tex., Brownsville — City, reported, plans \$50,000 sewer improvements in 1930.

Tex., Colorado—City plans expending \$300,000 for water supply system.

Tex., Cotulla—City receives bids Dec. 23 for sewer system and sewage disposal plant; F. J. Von Zuben, Consult. and Supvg. Engr. 12-5

Tex., Galveston — W. B. McGarvey, City Engr., requested to prepare estimates of cost of removal present drain on east end flats and constructing covered drains.

Tex., Houston — Elder Construction Co., 4714 Jack St., has contract at \$22,000 for storm and sanitary sewers in connection with Houston Ave. underpass; Hamp L. Shaw, City Engr.

Tex., Midlothian—See Water Works.

#### Street Railways

Mo., St. Louis—R. F. Kelker, Jr., Consult. Engr. for St. Louis Transportation Survey Comm., recommended expending \$23,776,000 by St. Louis Public Service Co., including rerouting cars, involving constructing 7 mi. single track and making crossings and connections, \$726,000; building 11.25 mi. extensions into new territory, with necessary real estate and loops, \$1,154,500 in St. Louis and \$183,500 in the county; bus feeder lines, \$512,000; new cars, \$12,800,000; electric heaters in 600 cars, \$200,000; car stations, shops and appurtenances, \$1,000,000; additions to power stations and power distribution system, \$1,200,000; repaving between tracks, \$6,000,000.

Tenn., Franklin—See Electric Light and Power.

Texas—See St. Louis, Mo.

#### Telephone Systems

Ky., Louisville—Southern Bell Telephone Telegraph Co., Atlanta, Ga., M. A. Erskine, Dist. Mgr., reported, start erecting \$1,500,000 first unit of \$5,000,000 main office dial building, Chestnut St. and Armory Pl., first unit, 10 story and full basement, 122x147 ft., Apr. 15, 1930; foundation for 19 stories, modern perpendicular set-back type, struc. steel, rein. conc., brick, orna. limestone. 11-21

La., Shreveport—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., reported, expend approx. \$500,000 here in 1930; install new equipment, string large cables and install additional dial telephones.

Miss., Hattiesburg—Southern Bell Telephone and Telegraph Co., Atlanta, Ga., John C. Hay, State Mgr., erect \$250,000 telephone building and expend \$220,000 for additional service equipment.

Mo., King City—Southwestern Bell Telephone Co., E. D. Nims, Pres., Telephone Bldg., St. Louis, probably take bids on general contract about Dec. 30 for repeater station; 1 story, brick; W. J. Knight & Co., Struc. Engr., Wainwright Bldg.; I. R. Timlin, Archt., Telephone Bldg., both St. Louis.

Mo., St. Louis—Southwestern Bell Telephone Co., Telephone Bldg., reported, plans expending \$50,000,000 for extensions and improvements to system in 1930.

Mo., St. Louis—Southwestern Bell Telephone Co., E. D. Nims, Pres., Telephone Bldg., authorized by Scotia Telephone Co., operating in city and suburbs, to acquire Ozark Central Telephone Co., operating in Missouri, and to issue additional \$15,000,000.

Mo., Wright City—Southwestern Bell Telephone Co., E. D. Nims, Pres., Telephone Bldg., St. Louis, completing plans for repeater station; 1 story, brick; W. J. Knight & Co., Struc. Engr., Wainwright Bldg.; I. R. Timlin, Archt., Telephone Bldg., both St. Louis.

Oklahoma—Standard Telephone Co. of Texas, John E. Davies, Pres., 120 S. La Salle, Chicago, Ill., reported, expend \$2,000,000 for improvements, including rebuilding toll, rural and city lines, installing new switch boards and office equipment; improve properties in Roger Mills, Woods, Ellis and Harper Counties; erect new exchanges at Buffalo and Laverne.

Texas—See Electric Light and Power Co. Tex., Point Isabel—Rio Grande Valley Telephone Co., J. C. Paxton, Gen. Mgr., acquired site for exchange.

Okla., Muskogee—Southern Bell Telephone & Telegraph Co., M. J. Holland, Dist. Mgr., Atlanta, Ga., expend \$100,000 for expansion in city; starting Jan. 1, all overhead lines on west side of city out to 30th St. to be supplanted by underground cables and lines in Midland Valley addition to be extended; equivalent of 4250 mi. of single strand wire to be connected into system.

Tenn., Bruceton—Bruceton Telephone Co., C. W. Fulghum, Mgr., having preliminary survey of city made by D. B. Carmen Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill., engaged to remove all old cables and install new cables and extend lines where necessary.

### Textile Mills

Md., Elk Mills—Baldwin Mfg. Co., erect 100x50 ft., 2 story unit to weaving plant; Austin Co., Philadelphia, Pa., has contract including installation of machinery.

N. C., Charlotte—Jass Mfg. Co., N. Tryon St., construct \$100,000 textile specialty mfg. plant.

N. C., Durham—Durham Hosiery Mill, reported, install 16 full fashioned hosiery machines.

N. C., Forest City—The Belk Co., 23 E. Trade St., Charlotte, reported, will furnish machinery for new textile mill, J. M. Lumley of Ellenboro Mfg. Co., promoter; have site; erect mill of 8000 spindles and 60 looms; manufacture cotton rayon and tapes; \$150,000 subscribed by citizens.

N. C., Haw River—Tabardrey Mfg. Co., reported, let contract to Sharp Mfg. Co., New Bedford, Mass., for 84 drawing-in frames.

N. C., Marion—Cinchfield Mfg. Co., B. M. Hart, Pres, reported, install water and sewer systems in mill village.

S. C., Clover—Hawthorn Spinning Mills and Hampshire Spinning Co., on Jan. 1st will merge into one corporation and incorporated under laws of South Carolina as Hampton Spinning Mills; no improvements or extensions of any kind will be made.

Tenn., Morristown—Aronsohn & Hirschfeld Silk Co., 159 Madison Ave., N. Y., advises do not intend to enlarge mill in near future.

### Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Greenville—Town receives bids Jan. 8 for improvements to water plant and exten-

sion to distribution system. See Want Section—Bids Asked.

Ala., Mobile—City Comns. authorized improvements of spillway to Bienville water works pumping station, cost \$6,000, and purchase of pipe for Toulminville extension.

Ark., Berryville—See Sewer Construction.

Ark., Leachville—City, reported, plans water works, distribution system, mains and sanitary sewers.

Fla., Belle Glade—City, reported, plans installing water works system; may vote on \$30,000 bonds; J. Turner Wallis, Engr.

Fla., St. Petersburg—Southern Water Co., incorporated; U. C. Barrett, Central Natl. Bk. Bldg.

Ga., Cordele—City, reported, install water works improvements light and power distribution system; cost \$85,000.

Ky., Louisville—Louisville Water Co., E. J. Miller, Pres., started work on \$250,000 extension of water works system; 3800 ft. of 48-in., 6000 ft. of 30-in., C. I., B & S pipes; miscellaneous 12 ft. of 8 and 6-in. lines; John Chambers, Ch. Engr. & Supt., 435 S. 32nd St.; all material contracted; work by company's forces.

Md., Baltimore—Northeastern Construction Co., 6 W. Madison St., has contract for Guilford pumping station at Old Cold Spring Lane and Underwood Rd.

Miss., Byhalia—City votes soon on purchase of water works plant.

Mo., Carthage—Carthage Water & Electric Co., plans \$30,000 expenditure; construct c. i. flow line from water reservoir north of new plant; pipe line from plant to main on River St.; switch board; underground electrical distribution system; rebuild north feeder power circuit.

Mo., Kansas City—National Cast Iron Pipe Co., Birmingham, Ala., has contract for 2000 tons c. i. pipe, for use in feeder extension; work by city's forces.

Mo., Platte City—City plans voting on \$36,000 bonds for water distribution system.

Okla., Barlow—City plans voting in 3 weeks on water works bonds.

Okla., Duke—City, reported, plans water improvements; voted \$15,000 bonds.

Okla., Marlow—City, reported, install soft water supply system; V. V. Long & Co., Engrs., Colcord Bldg., Oklahoma City.

Okla., Olustee—City, reported, soon receive bids for water works extension; \$25,000 available

Okla., Shawnee—City, reported, plans 12,000 ft. c. i. mains between Williamson Farm and city limits.

Tenn., Nashville—Alabama Pipe Co., Anniston, Ala., reported, has contract for furnishing water department with 3360 ft. 6-in. c. i. water pipe and fittings.

Tex., Dallas—City Comn. receives bids Dec. 27 for \$300,000 materials and work for addition to water main system; turnkey basis.

Tex., Fort Worth—Tarrant County Water Control & Improvement Dist. No. 1, W. R. Bennett, Pres. of Bd.; Hawley & Freese, Consult. Engrs., 411 Capps Bldg., receives bids Jan. 21 for flood control and water supply, including reservoir at Eagle Mountain and Bridgeport, Wise County straightening Clear Fork of Trinity River and levees along Cedar Fork; total cost, including cost of land, \$6,500,000; following contractors estimating: McKenzie Const. Co., Smith-Young Tower, San Antonio; W. E. Callahan Const. Co., Kirby Bldg., Dallas; Uvalde Const. Co., Santa Fe Bldg., Dallas; Trinity Farms Const. Co., 2519 Oak Lawn Ave., Dallas; Canal Const. Co., Memphis, Tenn.; Ray E. Miller, Seattle, Wash.; The Arundel Corp., Fort Worth; Womack-Henning Const. Co., Sherman.

Tex., Midlothian—W. G. Davis, North Texas Bldg., Dallas, reported, has contract for \$70,000 water works and sewerage improvements.

Tex., Mineral Wells—City plans expending \$50,000 for pumping plant and extension to water mains.

Tex., San Saba—Joe B. Winslet, Inc., Mercantile Bank Bldg., Dallas, reported, has contract for improvements to water works; cost \$35,000.

Va., Salem—Boyd & Goforth, Inc., Charlotte, N. C., has contract at \$83,000 for 1,000,000 gal. water purification plant.

W. Va., Bridgeport—Town will probably vote on \$15,000 water bonds; lay 1350 ft. of 6-in. and 2200 ft. of 4-in. main; construct concrete or steel tanks.

### Woodworking Plants

Ky., Louisville—Mengel Co., 11th & Damesville Sts., let contract to Plattoff & Bush, 122 W. Liberty St., for \$50,000 cigar box plant, 1430 S. 12th St.; 50x400 ft., 2 story, brick, steel; employ 300; Louisville Bridge & Iron Co. has steel contract.

N. C., Lenoir—T. H. Broyhill and Ed Broyhill acquired interest of George F. Harper in Harner Furniture Co., effective Feb. 1, 1930; to be incorporated under name of Harper Furniture Co., Inc., and be made unit of other Broyhill plants.

Okla., Oklahoma City—Oklahoma Sash & Door Co., E. Grand St., drawing sketches for \$150,000 sash and door plant, 17th St. and Broadway; 2 story, timber.

### FIRE DAMAGE

Ark., Little Rock—Little Rock Boys' Club, Eighth and Scott Sts., D. D. Terry, Pres.; loss \$60,000.

Ark., Monticello—Main building of Vera Lloyd Presbyterian Orphans Home; loss \$30,000.

Ark., Winslow—Winslow Consolidated School; loss \$35,000; O. W. Bass, Washington County Supt. of Education, Fayetteville.

Ga., Athens—H. D. Marbut's store, Athens Fish Market, Fish & Oyster Co.'s building, R. F. Christian's candy kitchen; loss \$35,000.

Ga., Brunswick—Robert Wenz's store, 1400 Albany St.

Ga., Cordele—N. D. Lewis' building on S. 8th St., occupied by New Fish & Oyster Co.

Ga., Midville—Dwelling, Jones St., owned by E. T. Stevens.

Ga., Scotland—W. S. Adam's 6 buildings; loss \$75,000.

Ga., Tignall—J. F. Wilkinson's store; Chenuault's Undertaking Establishment.

Ky., Lexington—Farmers' Union stockyards, Manchester St.; loss \$25,000.

La., Cotton Valley—Magnolia Petroleum Co.'s absorption plant and cooling station.

Md., Baltimore—Thomas H. O'Connor Paper Co.'s plant, 455 Guilford Ave.

Miss., Brookhaven—Dwelling, Railroad Ave. and E. Chickashaw St., owned by Misses Annie and Josie Hurst.

Miss., Meridian—Mrs. A. E. Coats' residence near Meridian; loss \$7000.

Mo., Urbana—J. A. Hooper Dry Goods Co.'s store; Wright Huggitt's barber shop; Farmers' Exchange Feed Co.'s building; Everett Erickson Cafe; Hughes Dry Goods & Grocery Co.'s store; W. O. Rush Produce Co.'s building; Dr. B. R. Miller's office; G. W. Miller's residence; Dr. B. E. Harrell's office; loss \$25,000.

N. C., Albemarle—J. C. Burleson's residence, North Albemarle.

N. C., Chapel Hill—Delta Sigma Phi Fraternity house at University of North Carolina.

N. C., Durham—Baby ward of Wright Refuge for Children near Bragtown.

N. C., Goldsboro—Mrs. Georgie Freeman's building on E. Walnut St. occupied by C. Z. Kadis; loss \$20,000.

N. C., Reidsville—E. H. Cascott's residence.

S. C., Chester—Standard Oil Co.'s warehouse on Southern Ry. tracks.

S. C., Spartanburg—National Furniture Co.'s store on E. Main St.; loss \$75,000.

Tenn., Eagleville—Flour mill of Eagleville Milling Co., operated by A. P. Elmore; loss \$15,000.

Tenn., Nashville—Farris Hardwood Lumber Co.'s stable, Cowan and First St.

Tex., Cain City—Hoffman's General Merchandise Store; loss \$15,000.

Tex., Dallas—Good & Foster Aero Service's hangar and 12 airplanes, Love Field; loss \$200,000.

Tex., Fort Worth—John T. White (rural) School near Fort Worth; loss \$12,000.

Tex., Gordonville—Gordonville Gin & Seed Co. owned by W. B. Richardson, operated by Carl and Victor Smith.



Tex., Nacogdoches—John McDonald's residence.

Tex., Navasota—First Baptist Church.

Tex., Nocona — Curlin Cotton Gin; loss \$25,000.

Tex., Texarkana—Ben F. Smith Co.'s store; loss \$10,000.

Tex., Wichita Falls—Building owned by

Stringer Estate and W. L. Robertson; loss \$40,000.

Tex., Wichita Falls—Antlers Hotel. Address The Proprietor.

Va., Clarendon—Sherwood Brothers storage plant on Richmond highway, near Virginia Highlands; loss \$25,000.

W. Va., Berkeley Springs—S. A. Ruppenthal's residence.

Okla., Ardmore—Roman Catholic Church, Rev. F. D. McCreedy, Pastor, erect parish house; brick and tile, 2 stories, 10 rooms; Harold Gimeno, Archt.; bids in.

Okla., Edmond—Presbyterian Church soon have plans completed for Sunday school addition; brick, tile and stone, 2 stories, conc. floors, asbestos shingle and felt roof, steel sash; Edw. Gahl, Archt., Perrine Bldg., Oklahoma City.

S. C., Spartanburg — Trinity Methodist Church, Rev. E. F. Moseley, Pastor, plans church during 1930.

Tenn., Knoxville—Church of God, Colored, Rev. J. L. Rucker, Pastor, 1008 E. Church St., plans to start work in Jan. or Feb. on \$10,000 brick bldg. to replace structure lately noted burned. See Want Section—Building Material and Equipment. 12-12

Tex., Beeville — Peace Lutheran Church, Rev. O. J. Schmidt, Pastor, raising funds for building.

Tex., Dallas—Abbey Presbyterian Church, Dr. L. D. Young, Pastor, having plans drawn by Bertram Goodhue Associates, Archts., 2 W. 47th St., New York, for \$1,000,000 to \$2,000,000 church, apartment hotel, store and office bldg., site present structure, Harwood St. and Ross Ave.; 20 or more stories. 1-24

Tex., Kerrville — Protestant Episcopal Church has low bid at \$39,597 from P. F. Allan for church; Atlee B. & Robt. M. Ayres, Archts., Smith-Young Tower; W. E. Simpson & Co., Engrs., Milam Bldg., all San Antonio. 12-5

Tex., Mineral Wells — First Methodist Church plans \$100,000 building.

Tex., San Antonio — First Cumberland Presbyterian Church plans \$50,000 brick building.

### City and County

Fla., Miami Beach—City Council remodel and erect addition to police station; \$10,000; additional cells.

La., New Orleans—Jefferson Volunteer Fire Department No. 1, L. A. Sanders, Chmn., Bldg., Comm., 3800 Tulane Ave., receives bids Dec. 19 for hollow tile and stucco engine house, Jefferson Terrace; 40x72 ft.; auditorium and dance floor, kitchen.

Md., Rockville—Montgomery County Bd. of Commrs. appointed following committees toward erection of \$550,000 to \$580,000 courthouse: Equipment, material and specifications, Geo. P. Sacks, Chmn.; on contracts and bidding, Robt. G. Hilton, Chmn.; to submit plans to Fine Arts Comsn. and to Board of Advisory Architects for District of Columbia (both Washington) and to employ constr. engineer, Capt. Chester Well, Chmn.; committee to determine time limit of occupancy of purchased bldgs. and prices, Lacy Shaw, Chmn.; detailed plans and specifications being drawn for structure; limestone front, extend 2 blocks, 272 ft. long, including 46x75-ft. end wings, 5 stories including double top story for jail; Indiana or Alabama limestone; Rossel Edward Mitchell Archt.-Engr., Barr Bldg.; Smith & Edwards, Const. Archts., 1207 First St., N. W., both Washington, D. C. 12-5

Miss., Jackson—Following additional contractors estimating on \$850,000 Hinds County courthouse, bids Dec. 20 by Board of Supvs.: Plumbing and heating—Robinson Bros. Plumbing Co., 214 W. Barr St., Pine Blot; Warburton Co., Yeager St., Eldorado Plumbing & Heating Co., Paine Heating & Tile Co. Fortification St.; J. O. Jessee; Davis Plumbing Co., 115 S. State St., all Jackson; Alonzo B. Hayden, Inc., Pass Christian; Fischer Heating Co., 367 Adams St., Memphis; wiring—Howard P. Foley Co., 101 Marietta St., Atlanta; Gates Electric Co., Gulfport; Bunn Electrical Engineering Co., Inc., 742 St. Charles St.; Hart Enterprise Electrical Co., Inc., 826 Baronne St., both New Orleans, La.; Koenenman Electric Co., Hamilton St.; Stuart C. Irby Co., 232 E. Captain St.; Century Electric Co., Medical Bldg.; The Electric Shop, 112 E. Captain St., all Jackson; Bagby Elevator & Electric Co., 3113 3rd Ave. S., Birmingham, Ala.; Thompson Electric Co., 63 S. 3rd St., Memphis; Southeastern Electric Co., First Natl. Bk. Bldg., Montgomery, Ala.; jail equipment—Southern Prison Co., 4500 S. Presa St., San Antonio, Tex.; Pauly Jail Building Co., St. Louis, Mo.; The Van Dorn Iron Works Co., Cleveland, O.; The Stewart Iron Works, 17th & Madison Ave., Cincinnati, O.; Fries & Son, Covington, Ky.; elevators and enclosures—Bagby Elevator Co.; Art Metal Construction Co., Corner Bldg., both Birmingham; Shepherd Elevator Co., Memphis; American G. E. Elevator Co., Chicago; Westinghouse Electric

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

Ga., Macon—Al Shihah Temple, A. A. N. M. S., C. A. McAllister, member, soon call for bids for \$75,000 temple, Poplar St. and Cotton Ave.; brick, tile and stucco, 2 stories and basement; Claude Shelverton, Archt., Grand Bldg.

10-11-28

La., Vinton—Knights of Pythias, S. R. Holder, member, Bldg. Comm., erect lodge bldg.; 2 stories; first floor leased to Government for post office.

Md., Baltimore—Scottish Rite Holding Co., J. Edw. Richardson, Pres., 3800 Charles St. Ave. is taking sub-bids until Dec. 21 through Price Construction Co., Maryland Trust Bldg., to erect \$1,000,000 temple, Charles St. Ave. and 39th St.; limestone, 4 stories; Clyde N. and Nelson Friz, Archts., Lexington Bldg.; Chas. L. Reeder, Mech. Engr., 918 N. Charles St.; C. H. Osborne, Struct. Engr., 222 W. Franklin St. 9-19

Okla., Oklahoma City — Young Women's Christian Assn., Mrs. Walter S. Hanson and Mrs. E. K. Gaylord, Co-Chairmen of Bldg. Comm., selected Hawk & Parr, First Natl. Bk. Bldg., as architects for bldg., First St. near Harvey St.; inaugurate campaign, probably in Feb., for \$700,000. 6-27

#### Bank and Office

La., Monroe—Jas. A. Noe, Monroe, O. E. Hodge, Ruston, La., and others have plans ready by Eugene John Stern, Archt., A. O. U. W. Bldg., Little Rock, Ark., about Jan. 15 for \$750,000 Medical Arts Bldg., Harrison and Jackson Sts.; brick, stone, terra cotta trim, 12 stories, 70x172 ft. at base, 2 main entrances; upper 6 floors for physicians and dentists. 10-31

Md., Baltimore—Baltimore Life Insurance Co., Arthur R. German, Vice-Pres., 301 N. Charles St., will have plans out in few days for 12-story office bldg., Charles and Saratoga Sts.; fireproof, Indiana limestone, steel constr.; 6 stores on first floor, auditorium on eleventh, library on top floor; roof garden on set-back of eleventh; Mottu & White, Archts., 527 N. Charles St. 11-7

Md., Salisbury—Salisbury National Bank, Wm. P. Jackson, Pres., erect \$175,000 bldg.; drawing preliminary plans.

Miss., Vicksburg — Mississippi River Comsn., 815 Olive St., St. Louis, Mo., start work this month on \$75,000 bungalow type office bldg., near Johnston Circle. 11-21

Mo., Jefferson City — Professional Arts Building Corp., M. R. Aldridge, Member, temporarily abandoned erection 5-story office building above First National Bank. 8-15

Mo., St. Louis—Pretoria Realty Co., erect 2-story brick addition to office bldg.; Henry Rush & Co., Archts., both 6038 Delmar Blvd.

Mo., St. Louis—North Eighth Realty Co., through Willson Realty Co., 712 Chestnut St., complete DeSoto Hotel, Eighth and Market Sts., for office bldg.; conc. frame up to 6 stories, to be 10 stories; foundation will carry 15 stories; J. T. Craven Engineering Co., Archt., Century Bldg. 12-12

Okla., Oklahoma City—First National Bank & Trust Co., Frank E. Johnson, Pres. (to be formed by merger of American-First National and Security National Banks); Mr. Johnson advises nothing yet done toward erection of 30-story bank and office bldg., site not purchased. 10-3

Tenn., Memphis—Union Planters National Bank & Trust Co., John J. Heflin, Vice-Pres., advises erection of addition postponed for present; \$200,000; Hoggson Bros., Archts., 485 Fifth Ave., New York; E. L. Harrison, Asso. Archt., Fidelity Bk. Bldg., Memphis. 6-27

Tex., Brownsville — Merchants National Bank remodel first floor of bldg.; \$75,000; marble floors, wainscoting, bank fixtures, etc.; Atlee B. & Robt. M. Ayres, Archts., Smith-Young Tower, San Antonio.

Tex., Dallas—T. P. Roberts, 3513 Drexel St., L. R. Whitson, 3814 Herschel St., Everett S. Owens and W. B. Silfer, 815 Monta Vista Drive, will be principal owners of 25-story office bldg., proposed for present site of McKessons-Crowdus Co., Commerce and Lane Sts.; 163x100 ft., white Bedford stone, indirect lighting, piping and conveyors within walls; Roberts & Whitson, Archts.

Tex., Dallas—Mercantile Bank & Trust Co. of Texas leased banking quarters in Magnolia Bldg.; remodel and refinish.

Tex., El Paso — R. L. Morris and Sam Rutherford, care Morris Investment Co., may erect \$850,000 Medical Arts Bldg., Franklin and Mesa Sts., first of year; 15 stories, 130x120 ft., Gothic type; first 6 floors for garage; ramps; Brauntun & McGhee, Archts., both First Natl. Bank Bldg.

Tex., Houston—Walker & Louisiana Realty Co., organized by Houston Gas & Fuel Co., 607 San Jacinto St., erect 12-story office bldg., Louisiana St. and Walker Ave., instead of smaller structure as previously reported; Smallwood & Hosmer, Archts., Esplanade Bldg., drawing plans; \$1,000,000, 102x125 ft. 5-23

Tex., McCombs—Security State Bank, L. C. Eastland, Pres., opened bids Dec. 20 for stone, brick and conc. bank bldg.; 1 story, 50x110 ft., conc. floors and foundation, tar and gravel roof. Address Roy K. Hamberlin, Archt., Builders Exchange, San Antonio. See Want Section—Building Material and Equipment. 11-28

### Churches

Fla., River Junction—Baptist Church, Rev. Chas. L. Wattenberger, Pastor, started work on 37x70-ft. brick veneer bldg. between River Junction and Chattahoochee.

Ga., Atlanta—Warren Memorial Methodist Church, W. T. Cunningham, Chmn., Bldg. Comm., 78½ Auburn, S. W., rebuild structure, Greensferry Ave. and Mildred Sts., S. W., damaged by fire at \$78,000 loss; brick, slate or comp. roof, conc. footings.

Ga., Waycross—First Presbyterian Church, Rev. Louis C. LaMotte, Pastor, considers rebuilding burned structure.

La., Oakdale—First Baptist Church, Rev. L. A. Materne, Pastor, having plans completed by Daniel & Smith, Archts., Beaumont, Tex., for \$16,000 bldg.; brick, rein. conc., stone trim. 11-7

Md., Baltimore—Grace M. E. Church, Dr. Benj. W. Weeks, Pastor, has option on site, Charles St. and Belvedere Aves. and Croydon Rd.; plans \$400,000 Gothic type bldg. after plans by Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass., and 19 Jackson Place, Washington, D. C., and Wm. W. Emmart, Asso. Archt., Union Trust Bldg., Baltimore; church, Sunday school and parsonage. 3-22-28

Mo., Kansas City—St. Andrew Episcopal Church, Rev. J. P. DeWolfe, Rector, 424 W. 6th Terrace, having plans prepared by E. Buehler, Meyer Blvd. and Ward Parkway, for \$300,000 church, Meyer Blvd. and Wornall Road.

N. C., North Wilkesboro—Walnut Grove Baptist Church, R. C. Meadows, Chmn., Bldg. Comm., Pores Knob, erect brick Sunday school; bids in.

Elevator Co., Magnolia Bldg., Dallas, Tex.; Moffatt Machy, Mfg. Co., 185 Flora Ave., N. E.; The Tyler Co., Bona Allen Bldg., both Atlanta, Ga.; Otis Elevator Co., 852 Carondelet St., New Orleans, La.; Dahlstrom Metal Door Co., Jamestown, N. Y.; Claude H. Lindsey, Archt., Edwards Hotel Bldg., Jackson; Gardner & Howe, Struc. Engrs., Porter Bldg., Memphis; C. A. Peerman, Mech. Engr., Birmingham. 12-12

Miss., Mendenhall—Simpson County Bd. of Supvrs. receives bids Jan. 6 to remodel and reroof courthouse.

Mo., West Plains—Howell County votes Jan. 21 on \$125,000 courthouse and jail bonds; Earl Hawkins, Archt., McDaniel Bldg., Springfield. 11-28

N. C., Greensboro—City, P. C. Painter, City Mgr., remodel library, Gaston St.; plans by Ray Warren, City Engr.

Okla., Muskogee—City Council, R. P. Chandler, City Clk., start work in few days razing bldgs. on site of proposed \$400,000 city hall; stone and conc., 3 stories, 140x202 ft., wood, cement, tile and terrazzo floors, steam heat; H. H. Nieman, Barnes Bldg., and L. L. Howenstine, 2705 Oklahoma St., architects. 7-4

Tenn., Ripley—City Comm., having plans revised for \$18,000 city hall and fire station; brick and rein. conc., 2 stories and basement, 48x54 ft.; Claude Northern, Archt., Fidelity Bk. Bldg., Memphis. 11-7

Tex., Corsicana—City voted \$25,000 public market bonds. 11-14

Tex., Fort Worth—City Council voted to accept offer of Masonic Building Assn. of site for municipal auditorium, contingent upon passage of bond issue to provide for construction. 11-28

Tex., Harlingen—City Comm., W. H. Scott, member, may erect athletic bldg. and swimming pool.

Tex., Midland—Midland County Bd. of Commrs., M. R. Hill, Judge, receives bids Jan. 8 for 5-story, 70x130-ft., rein. conc., brick and stone courthouse; separate bids on plumbing, heating, wiring, electric fixtures, movable wood furniture, court room furniture, steel furniture and equipment, elevators and jail equipment; tile, terrazzo, cement and linoleum floors; Voelcker & Dixon, Inc., Archts., Perkins-Snyder Bldg., Wichita Falls. 10-17

Tex., San Antonio—City, Phil Wright, Fire and Police Comm., receives bids Dec. 23 for 1 and 2-story, rein. conc. and brick Harlandale, fire station, S. Flores and Robert E. Lee Sts.; tile roof, Mission type; L. Harrington Co., Archt., Builders Exchange Bldg.; Beretta-Stiles Co., Inc., Engrs., Natl. Bk. of Commerce Bldg. 12-5

Tex., San Antonio—City, Fred Fries, City Clk., opens bids Dec. 23 for fire and police station, Harlandale; rein. conc., brick, 1 and 2 stories, tile roof, steam heat; L. Harrington Co., Archt., Builders Exch. Bldg.; Beretta-Stiles Co., Inc., Engr., Natl. Bank of Commerce Bldg. 12-5

Tex., San Antonio—City, Jacob Rubiola, Park Comm., soon start work on \$12,000 open air theater, Star Garden, Brackenridge Park; plans by Gutzon Borglum.

Tex., San Antonio—City, C. M. Chambers, Mayor, selected Kelwood Co., Travis Bldg., as architect for \$25,000 fireproof fire station, North New Braunfels Ave. and Garrity Rd.; 2 stories. 12-5

Tex., Tyler—City erect \$30,000 fire station; bonds available; probably let contract about Jan. 15.

Va., Lynchburg—City has low bid at \$36,000 from C. L. Lewis for central fire station, Fifth and Church Sts.; Clark & Crowe, Archts., Krise Bldg. 12-5

### Dwellings

Ala., Bessemer—Chas. Schilleci, 609 N. 17th St., receives bids Jan. 6 for 4 dwelling, Clarendon Ave.; brick veneer, 2 stories. Address T. F. Skinner, Archt., 2208 Dartmouth Ave.

Ark., Clarkedale—Banks & Dana Plantation, Shank Dana, erect 10 cabins, manager's dwelling and barn; \$15,000.

D. C., Washington—Francis Colt de Wolfe, 1232 33rd St., N. W., has permit for rear porch and garden wall construction, 3322 O St., N. W.; \$20,000.

Fla., South Jacksonville, Jacksonville—B. N. Inman, 236 Sorrento St., reported, plans number additional dwellings, Shadyside section.

Ga., Augusta—C. R. Daniel, 2316 Wrightsboro Rd., erect \$12,000 residence, Wrightsboro Rd. and Stovall St.; 1½ stories.

La., New Orleans—Miss Mary Dunn, 2623 Palmyra St., erect double residence and 2 metal garages, 2400-02 Palmyra; bids Dec. 20.

Md., Baltimore—A. Henderson McLean, Harrison Rd., erect \$10,000 brick dwelling, 1107 Bryn Mawr Ave., Poplar Hills; Howard F. Baldwin, Archt., 339 St. Paul Place.

Md., Baltimore—Gunn, Williamson & Guy, Morris Bldg., erect \$20,000, 2½-story, brick or stone residence, Homeland; J. W. Wolcott, Archt., 324 N. Charles St., completing plans.

Md., Williamsport—Maj. Jos. W. Byron receives bids Dec. 21 at office Palmer & Lambdin, Archts., 513 N. Charles St., Baltimore, for residence; \$60,000, stone, 2½ stories.

Miss., Jackson—J. W. Holman erect \$25,000 English type brick residence; 2 stories, tile baths, tile roof, hardwood floors, steam heat; J. Frazer Smith, Archt., Goodwyn Inst., Memphis, Tenn.

Mo., St. Louis—August Gerock, 3865A Connecticut St., erect brick residence, Moorlands; 2 stories and basement, 31x32 ft.; F. G. Avis, Archt., 1021 Big Bend; bids in.

Mo., St. Louis—L. Votruba, care O. J. Popp, Archt., Arcade Bldg., erect brick residence, Loughboro St. near Field St.; 2 stories and basement, 41x28 ft., tile bath, hardwood, tile, and rubber tile floors, slate roof, hot water heat.

Mo., St. Louis—Dr. Lawrence G. Post, 228 N. Newstead Ave., erect brick residence, Dromara Rd.; 2 stories and basement, 54x27 ft.; Beverly T. Nelson, Archt., Chemical Bldg.

Mo., Webster Groves, St. Louis—C. R. Comfort, Pres., Comfort Printing & Stationary Co., 107 N. Eighth St., erect \$25,000 residence, 215 N. Gore St.; D. Mullen, Archt., Seven Gables Bldg., Clayton.

N. C., Charlotte—H. M. McAuley, Law Bldg., erect residence, Queens Rd.

N. C., Charlotte—J. H. Carson Co., 328 S. Tryon St., start work early in 1930 on number dwellings; \$75,000.

Tenn., Memphis—R. S. Magee, Fidelity Bk. Bldg., start work within 2 weeks on \$200,000 dwelling program, Belleair Woods; 10 dwellings.

Tenn., Memphis—Mrs. Frank Allen, 1363 Union Ave., erect brick veneer residence; 2 stories and basement, 80x33 ft., tile baths, hardwood floors, comp. or tile roof, steam heat; Geo. Mahan, Jr., Archt., Manhattan Bk. Bldg., drawing plans. 11-7

Tex., Falfurrias—O. A. Fore plans residence on farm near Falfurrias; water well completed; plant citrus trees.

Tex., Houston—S. H. Dunlap, 2109 Austin St., erect \$10,000 10-room frame residence, 1907 Isabella St.

Tex., Houston—J. D. Sowell, 2418 Rosewood St., erect \$12,000, 7-room frame dwelling, 2202 Calumet Drive.

Tex., Houston—R. E. Disque, 1618 Colquitt St., erect \$11,000, 7-room brick dwelling, 2219 Del Monte St.

Tex., Houston—Russell Brown, 3104 Main St., erect \$20,000, 9-room brick veneer dwelling, 2144 Brentwood St.

Tex., San Angelo—F. H. Kump plans 20-bungalow court, Elizabeth Ave. and 4th St.

Tex., San Benito—Harvey F. S. Robertson erect stucco Spanish type residence; 1 story, 7 rooms, tile roof, patio; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg., San Antonio; local bids.

### Government and State

Ala., Camp McClellan, Anniston—Constructing Quartermaster, O. E. Davis, First Lt., receives bids in triplicate until Jan. 13 for 18 officers' quarters, Fort McClellan, 1 field officers' and 17 company officers' quarters, tile and stucco, 2 stories and full basement, Mission tile roof, hot water heat; \$225,000 appropriation available. 11-14

D. C., Washington—District Commissioners receive bids until Jan. 11 at Room 509, Dist. Bldg., for exhibition bldg. for reptiles, amphibians, insects and misc. invertebrates, National Zoological Park; 413,850 ft.; plans by A. L. Harris, Municipal Archt., Dist. Bldg.; plans from Room 427. 10-3

Md., Baltimore—Following additional contractors estimating on post office building for which bids will be opened Jan 6: Frainie Bros & Haigley, 19 W. Franklin St., Morrow Bros., 1201 Fidelity Bldg., Pyles Re-

frigeration Engineering Co., 411 W. Pratt St., The Lacchi Construction Co., all Baltimore; Boyle-Robertson, Inc., Evans Bldg., Geo. E. Wyne, 2525 Pennsylvania Ave., Geo. Hyman Construction Co., 1010 Vermont Ave., all Washington, D. C.; John Gill & Sons Co., Bulkley Bldg., Cleveland, Ohio; National Construction Co., Inc., 516 Glenn Bldg., Atlanta, Ga.; Nelson-Pedley Construction Co., Inc., 1510 Chestnut St., Ralph S. Herzog, 10 S. 18th St., both Philadelphia; Geo. Colou Construction Co., 103 E. 125th St., S. Acunto & Co., Inc., 110 E. 42nd St., New York; Concrete Engineering Co., 1213 Plaza Bldg., Pittsburgh; Jas. A. Wetmore Act. Supvg. Archt., Treasury Dept., Washington. 12-12

Md., Chestertown—Maryland National Guard, Gen. M. Reckord, Armory Bldg., Howard and Richmond Sts., Baltimore, plans 2-story, head house and 1-story drill hall; \$50,000; architect not selected; money not available until next Aug.

Okla., Bartlesville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., probably start work early in 1930 on \$175,000 post office. 12-22-27

S. C., Hartsville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$40,900 from John W. Hudson, Jr., Bank & Tr. Bldg., Raleigh, N. C., for post office. 12-5

Tenn., McMinnville—Following contractors estimating on remodeling and enlarging post office, bids opened Jan. 8; Jones Bros. & Co., Wilson, N. C.; W. D. Lovell, 1415 Eighth St., S. E., Minneapolis, Minn.; Martin & Warlick, 1850 Central St., Chattanooga, Tenn.; J. E. Allen & Co., Cookeville, Tenn.; J. N. Boston & Sons, Marion, Ky.; Theriault Contracting Co., 435 E. Johnson St., Philadelphia; Charles Weitz's Sons, 713 Mulberry St., Des Moines, Iowa; Smythe & Co., 1416 F St., N. W., Washington, D. C.; Jas. A. Wetmore, Act. Supvg. Archt., Treasury Dept., Washington. 8-15

### Hospitals, Sanitariums, Etc.

Ala., Jasper—Dr. L. M. Walker started work on clinic alterations; \$10,000; Chas. H. McCauley, Archt., Jackson Bldg., Birmingham; owner builds. 11-28

Ark., Booneville—Logan County Bd. of Commrs., Judge J. M. Hill, Chmn., Sanatorium Comm., Fort Smith, have plans ready about Jan. 2 for 2 bldgs., State Tuberculosis Sanatorium; tile and stucco, 2 stories, 188x30 ft. and 236x33 ft.; \$100,000; Haralson & Nelson, Archts., Merchants Natl. Bk. Bldg., Fort Smith.

Ark., Pine Bluff—Arkansas Baptist Convention, John W. Reap, Chmn., Bd. of Trustees, does not plan Nurses' Home at Davis Hospital. 12-8

Ga., Macon—City, G. Glen Toole, Mayor, may call election on about \$2,000,000 bonds, possibly including \$150,000 for improvements to Macon Hospital.

Miss., Charleston—Dr. J. W. Moodey, Poplarville, purchased Turner-Farber-Love Hospital; remodel.

Mo., St. Louis—Jewish Hospital, Aaron Waldheim, Pres., Kingshighway and Forest Park Blvd., has permits for \$225,000, 7-story, 112x37x53-ft. Waldheim Health Clinic, 4958 Forest Park Blvd.; \$150,000, 5-story, 115x66 ft. chronic and convalescent hospital, 4959 Parkview Ave.; also to remodel and erect addition to 3-story, 50x42-ft. hospital, 216 S. Kingshighway, \$90,000; all rein. conc. and brick, conc. comp. roof, steam heat; Graham, Anderson, Probst & White, Archts., Railway Exchange Bldg. 10-17

N. C., Raleigh—Drs. Rucker and Carson, Nordell Hill, erect \$40,000 sanitarium after plans by Jas. A. Satter, brick, 2 stories and basement, 43x92 ft., conc. foundation, comp. roof; furnishings, equipment, etc., \$30,000; bids in. 12-12

### Hotels and Apartments

Ala., Birmingham—W. D. Lindsay, Sec. Treas., Wofford Bond & Mortgage Co., First Natl. Bk. Bldg., advises that they have decided not to erect \$350,000 apartment on Country Club Road at this time. 11-7

Ark., Harrison—Continental Hotel Co., Ralph M. Mack, Pres., ready for bids about Jan. 15 for 1-story, brick and conc., 26-room addition to Hotel Seville. 10-17

N. C., Charlotte—Home Real Estate & Guaranty Co., 219 S. Tryon St., reported, erect \$100,000 apartment.

Md., Baltimore—Arrow Real Estate Co., A. G. Dreyer, 2612 Poplar Drive, Larchmont, erect 3-story brick, 8-apartment, 2007 Garrison Ave.



Mo., Fulton—Mrs. R. R. Cone, Garden City, plans rebuilding Fulton Hotel damaged by fire for store or hotel. 12-5

Mo., St. Louis—Pretoria Realty Co., care H. Rush & Co., Archts., 6038 Delmar Blvd., reported erect \$2,000,000, 5-story, brick hotel, Delmar Blvd. and Des Peres.

Mo., Warsaw—Lakeside Hotel Co., H. P. Lay and associates, plan \$50,000, 2-story, native stone, 31-room hotel; LeRoy Parrish, Archt., Jefferson City, drawing preliminary plans.

N. C., Charlotte—Nick D. Caperonis has permit for \$16,000, 20-room brick veneer apartment, 520 Grandin Road.

Tenn., Memphis—O. E. Bass, 1511 Jackson Ave., has plans by W. C. Lester, Dermon Bldg., for \$175,000, 5-story, rein. conc. and brick, 30-apartment, Peabody Ave. and McLean Blvd.; built-up roof, hardwood floors, steam heat.

Tex., Stephenville—Senator Carl C. Hardin promoting erection \$300,000 hotel; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth.

### Miscellaneous

Ark., Fayetteville—Mt. Sequoyah Assembly T. L. Hart, Treas., plans \$60,000 improvements within next 2 years; administration building probably be first to be built.

Ark., Little Rock—Little Rock Boys' Club, J. W. Mitchell, Sec., erect fireproof building to replace structure burned at loss \$60,000.

Ark., Monticello—Vera Lloyd Presbyterian Orphans Home rebuild main building noted burned at loss \$30,000. 12-12

D. C., Washington—District Federation of Federal Employees Union, A. J. Oliver, erect 8-story, 80x100-ft. building for educational and recreational center; auditorium to seat 600 people, library, 30 hotel rooms, gymnasium, swimming pool 65x25 ft., 3 bowling alleys.

Fla., Lynn Haven—St. Andrews Bay Club rebuild clubhouse destroyed by fire at loss of \$50,000.

Ky., Louisville—River Valley Club, John Marshall, Jr., Pres., rebuild clubhouse; \$45,000. 12-12

Md., Ellicott City—Francisco Fathers, Rev. Benedict Przemielewski, of St. Casimir's Church, Kenwood and O'Donnell Sts., Baltimore, in charge, erect \$300,000, 2-story and basement stone novitiate to accommodate 60 students; to be erected around rectangular court having 1-story cloister and will be approx. 190x173 ft.; sleeping rooms, chapel, refectory, recreation and community rooms, library; Palmer & Lambdin, Archts., 513 N. Charles St., Baltimore; bids in. 10-10

Mo., Joplin—Edwell Beach Corp., W. J. Welfelt, Pres., Winfield, Kans., and W. R. Draper, Mgr., Joplin, erect clubhouse, hotel, store and garage in connection with 240-acre development in Stone County for resort and townsite.

Mo., Kansas City—The Evans Home for Children, H. M. Evans, Pres., Pasadena, Calif., and Hotel Huehbach, Kansas City, Mo., having plans prepared by F. Y. Michaelis, Huntzinger Bldg., Kansas City, for \$100,000, 2-story, brick building. 12-12

Mo., St. Louis—Sebago Camps and Clubs, Inc., care J. Hal Lynch & Son, Archts., Dolph Bldg., erect 1-story, 51x66 ft., frame gymnasium; shingle roof, maple floors, hot air heat.

Okla., Tulsa—Tulsa County defeated \$500,000 bonds for electing buildings at Tulsa State Fairgrounds. 11-28

Tex., Abilene—Federation of Women's Clubs plans \$50,000 clubhouse.

Tex., Dallas—State Fair of Texas Assn., T. E. Jackson, Pres., having plans prepared by Mark Lemmon, Construction Industries Bldg., for \$600,000 conc. and steel stadium; seat 80,000 people. 10-3

Tex., Donna—J. M. Vielli, restaurant owner, Clinton, Ind., purchased Val Verde swimming pool, uncompleted hotel and surrounding grounds; finish hotel and improve amusement center.

Tex., Houston—A. B. Strozier, owner of Dixie Tourist Camp, 6700 block Harrisburg

Bldg., purchased 100x200 ft. site adjoining and enlarge tourist camp.

Tex., Palestine—Swift & Co., Union Stock Yards, Chicago, taking bids, date not set, for 2-story and basement, 48x50 ft., brick, steel and hollow tile wholesale market building; freight elevator, cork insulation, rein. conc., dock, refrigerating system; plans by owner; contractors estimating: James T. Taylor, Thos S. Byrne, Inc., both Fort Worth Natl. Bk. Bldg., Fort Worth.

Tex., Port Neches—Lions Club, W. H. Fortney, Pres., having plans prepared by James Ruskin Bailey, Public Natl. Bk. Bldg., Houston, for \$10,000 brick veneer clubhouse between Port Neches and Nederland. 9-26

W. Va., Bluefield—Chamber of Commerce, Herbert Markle, Pres., promoting erection of stadium.

### Railway Stations, Sheds, Etc.

Ga., Valdosta—Georgia and Florida R. R., H. B. Holmes, Ch. Engr., Augusta, plans to start work soon after Jan. 1 on 2-story brick combination freight and passenger terminals.

### Schools

Ark., Burdette—Mississippi County School Bd., D. Garrett, Pres., Blytheville, erect \$20,000 Jr. High School.

Ark., Pine Bluff—Arkansas Mechanical and Normal School for Negroes, Dr. J. B. Watson, Pres., raise buildings comprising old college plant move to site of new school where gymnasium, cottages for teachers and sanitarium will be built.

Fla., Fort Lauderdale—Broward County Bd. of Public Instruction, John M. Gerren, Sec., receives bids Dec. 27 for gymnasium adjoining Stranahan School.

Ga., Canton—Following contractors estimating on \$100,000, 2-story and basement, 117x84 ft., brick classroom and auditorium high school addition, bids Dec. 27 by Bd. of Education, Dr. Grady N. Coker, Chmn.: Williams Construction Co. and Grahn Construction Co., both Red Rock Bldg.; Sam N. Hodges Co., Erlanger Bldg.; J. S. McCauley Co., Padgett & Sutton, and Gilbert Beers, all Bona Allen Bldg.; Wagar & Co., Norris Bldg.; Capitol Construction Co., McGlawn-Bowen Bldg.; National Construction Co., Glenn Bldg.; Griffin Construction Co., 452 Spring St., N. W.; Chas. W. Bernhardt, 250 Hunnicutt St., N. W., all Atlanta; J. F. DuPre & Sons, Rome; R. T. Pritchard, Canton; A. Ten Eyck Brown, Archt.; A. Barili, Jr., Asso. Archt., both Forsyth Bldg., Atlanta. 11-7

Ga., Hamilton—Bd. of Education, C. Norman Cramer, Supt., soon select architect for \$125,000 school.

Ga., Shellman—School Bd., T. E. Allen, Chmn., receives bids Dec. 27 for \$35,000, 1-story and basement, brick high school; comp. roof, hardwood floors; Dennis & Dennis, Archts., 556 Mulberry St., Macon.

Ga., Haralson—Haralson School Dist. votes Dec. 27 on \$12,500 bonds.

La., Baton Rouge—Louisiana State University Bldg. Comm. receives bids Dec. 30 at office Wogan & Bernard, Archts., Raymond Bldg., for two rein. conc., brick and stone trim animal pathological buildings; \$45,000; one of buildings to be 2 stories, 38x60 ft., and other 1-story, 38x60 ft.; asbestos slate roofs, conc. and wood floors.

La., New Orleans—Dominican Fathers applied for permits for \$200,000, 3-story, brick and frame school and \$50,000 brick and frame rectory, Canal St. between S. Olympia and S. St. Patrick Sts.; Wogan & Bernard, Archts., American Bk. Bldg.

La., Shreveport—Centenary College erect \$100,000 dormitory, sponsored by local Rotary Club; Clarence W. King, Archt., Giddens-Lane Bldg., Shreveport, and Monroe.

La., Zwolle—Sabine Parish School Bd., Many, ready for bids in 30 days for \$33,000, 2-story, rein. conc., brick, stone trim school and \$5000 frame domestic science cottage; built-up comp. roof; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg., Monroe. 7-25

Md., Baltimore—Morgan College, Dr. J. O. Spencer, Pres., having plans prepared by E. L. Tilton, of Tilton & Githens, 141 E. 45th St., New York, for \$125,000, 3-story and basement, stone industrial science building; date of bids not determined.

Md., Baltimore—Seton High School, Sister Genevieve, 2800 N. Charles St., erect 3-story brick auditorium and gymnasium building; F. E. Tormey, Archt., 2 E. Lexington St.; H. Adams, Archt., Calvert Bldg., bids in.

Miss., Belzoni—Humphreys County Bd. of Education receives bids Dec. 28 for 4 to 6 schools for Section Sixteen, Township Sixteen, Range Five, West, and Section Sixteen, Township Fifteen, Range Four, West.

Mo., Columbia—Stephens College, Dr. James M. Wood, Pres., having plans prepared by Jamieson & Spearl, Arcade Bldg., St. Louis, for 5-story and basement, 187x45 ft., brick and rein. conc. dormitory, first unit of expansion program; comp. roof, terra cotta and cut stone trim, steam heat. 12-12

Mo., St. Louis—St. Engelbert's R. C. Church, Rev. A. J. Von Brunn, 4336 Shreve Ave., ready for bids about Jan. 15 for 2-story, brick parochial school, Carter and Marcus Sts.; H. P. Hess, Archt., Ambassador Bldg.

N. C., Chapel Hill—University of North Carolina, Dr. Harry W. Chase, Pres., plans either rebuilding Historic Memorial Hall or erecting new structure.

N. C., High Point—City votes Feb. 4 on \$850,000 bonds for expansion program for next few years; T. Wingate Andrews, Supt. of Schools.

N. C., New Bern—Bd. of Education erect \$125,000, 2-story and basement, brick, fireproof high school; Eric G. Flannagan, Archt., Henderson.

N. C., Winston-Salem—Bd. of School Comms., Henry Dwire, Chmn., receives bids Dec. 23 for \$300,000, 3-story and basement, 150x300-ft. brick high school for negroes, E. 12th St. and Cameron Ave.; accommodate 1000 students; Harold Macklin, Archt., Realty Bldg. 9-19

S. C., Columbia—Bd. of Education, Frank C. Withers, Chmn., erect 2-story, rein. conc., brick and tile high school; stone trim, built-up roof, hardwood and tile floors, steam heat; James B. Urquhart, Archt., Palmetto Bldg.; bids in Dec. 20. 6-27

S. C., Windsor—Windsor Consolidated School Dist. rebuild school destroyed by fire at loss \$40,000; A. L. Brodie, Supt., Aiken County Bd. of Education, Aiken. 12-12

Tenn., Crossville—Cumberland County Bd. of Education erect \$125,000, 2-story and basement, rein. conc., brick and tile school; comp. roof, stone trim; R. H. Hunt & Co., Archts., James Bldg., Chattanooga; bids in.

Tenn., Nashville—Meharry Medical College, Dr. John L. Mallowney, Pres., probably call for bids early in 1930 for 3 buildings to include Nurses' Home to accommodate 75, building to house boilers, refrigeration machinery, ambulance, animals and laundry; main building to contain 125-bed hospital, dispensary and medical, dental and pharmacy schools; brick, limestone trim; Gordon & Kaelber, Archts., 511 Alexander St., Rochester, N. Y. 12-12

Tex., Corsicana—Corsicana Public School, H. D. Fillers, Supt., having plans prepared by Blanding & Horn for Jr. High School and additions to several elementary schools; \$275,000 bonds voted; probably ready for bids by April. 12-5

Tex., Dallas—Southern Methodist University plans \$200,000 dormitory.

Tex., Eden—Bd. of Education, T. B. Drinkard, erect \$60,000, 1-story, brick, tile and rein. conc., 12-classroom and auditorium school; election soon on bonds; Peters, Strange & Bradshaw, Archts., Myrick Bldg., Lubbock.

Tex., Fort Worth—Bd. of Education considering calling another election May 26 on school bonds; recently defeated \$4,000,000 bonds. 11-7

Tex., Fort Worth—Texas Christian University plans stadium; steel and conc.

Tex., Fort Worth—Victory College, Rev. Mother Albertine, Pres., Shaw and Hemphill Sts., has plans by Joseph J. Patterson, of Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., for main administration and college building with second building including gymnasium, power plant laundries; \$600,000.

Tex., Lavernia—Lavernia Ind. School Dist. Trustees erect \$30,000, 1-story, 50x180 ft., 8-classroom and auditorium, brick and hollow tile high and grade school; Olin Boese, Archt., Builders Exchange Bldg., San Antonio.

Tex., Mineral Wells — Bd. of Education Mineral Wells Ind. School Dist., purchased site for school and will ask for \$75,000 bond issue early in 1930.

Tex., Round Mountain—Blanco County Bd. of Education, Mrs. George Felter, Supt., Johnson City, erect school to replace recently burned structure.

Tex., San Antonio—Bd. of Education, J. G. Hornberger, Pres., has plans by Atlee B. and Robt. M. Ayers, Smith-Young Tower, for \$125,000, 16-classroom, rein. conc., brick, stone trim, fireproof school, Zarzamora and W. Magnolia Sts.; cement, wood and tile floors, Mission tile roof.

Tex., Tyler—Bd. of Education plans to let contract about Jan. 15 for \$115,000 North Tyler Jr. High and \$105,000 South Tyler Jr. High School and improvements to schools; Bryan & Sharp, Archts., Construction Industries Bldg., Dallas. 11-7

W. Va., Charleston—Loudon School Dist. voted \$450,000 bonds for following schools: high school at South Charleston, \$250,000; junior high school at Marmet, \$100,000; grade school between South Malden and Kanawha City, \$50,000; grade school at Chesapeake, \$20,000; grade school at Vandalla, \$20,000; equipment for proposed buildings, \$100,000; R. H. Dunn, Member Bd. of Education. 11-14

W. Va., Morgantown—Monongalia County School Bd. erect \$300,000 University High School on West Virginia University campus for Grant, Cass and Union Dists.; Davis, Dunlap & Barney, Archts., 1805 Walnut St., Philadelphia, Pa.

### Stores

D. C., Washington—Jacob Riehl, 802 5th Ave., N. W., has permit for \$11,000, 2-story, brick store and flat, 1024 Ninth St., N. W.

Fla., Jacksonville—C. H. Hornstein, 1523 Walnut St., has permit for 1-story, 70x125 ft., brick, 6-store, Eighth and Main Sts., for Main-Eighth Holding Co.; \$15,000.

Ga., Atlanta—Alexander-Seewald Co., 414 W. Peachtree St., N. E., postponed indefinitely erection \$40,000 store on Hunnicut St.; Robert and Co., Inc., Archts.-Engrs., Bona Allen Bldg. 11-14

La., Alexandria—H. H. Harris, 2040 Marye St., erect addition to brick building, Murray and 4th Sts.; E. Leo Ball, Archt., Haas Bldg.

Mo., Joplin—S. S. Kresge Co., 74 W. Adams St., Detroit, plans to start work after Jan. 1 on \$150,000, 2-story brick store, 514-18 Main St.; 64 ft. frontage, Indiana limestone trim. 9-26

Mo., Kansas City—V. J. DeFoe, Archt., Huntzinger Bldg., drawing plans for remodeling 2-story brick store and apartment, 48th St. and Troost Ave., and erecting side addition for store, office and garage.

Mo., St. Louis—S. D. Rossi, Inc., 1412 N. Broadway, has low bid from Neier & Meng, 3974 Arsenal St., for 2-story and basement, 63x125-ft. brick and rein. conc. store, Delmar Blvd. west of Skinker Road; Gustav Wuest,

Archt., Wainwright Bldg.; Union House Furniture Co., Lessee, 1126 Olive St. 12-12

Mo., St. Louis — Washington University, Col. I. A. Hedges, 712 Spruce St., plans remodeling 8 story brick structure for store and loft building, 13th and Washington Sts.; private plans.

N. C., Asheville—National Bellas Hess Co., Inc., 207 W. 24th St., New York, soon ready for bids for remodeling Temple Court Bldg. on Patton Ave.; \$100,000, 22,000 sq. ft. floor space, tile and marble work, painting, millwork, partitions, plumbing, heating, electric work; S. Grant Alexander, Archt., 113 College St., Asheville.

Okl., Oklahoma City—John Murphy, 3304 W. 20th St., and James H. Berry, 719 W. 16th St., have low bid from Reinhart & Donovan, Commerce Exchange Bldg., for \$125,000, 4-story and basement building, 427-29 W. Main St., to be leased to Spivey and McGill Furniture Co.; steel, rein. conc. and brick; C. L. Monnot, Archt., Perrine Bldg. 10-31

Tenn., Memphis—John Gerber Co., C. A. Gerber, Pres., Main and Court Sts., rebuild department store; \$300,000; start work Dec. 26; main building to be raised from 4 to 5 stories, 1-story structure in rear to be raised to 5 stories; terra cotta and glazed glass front; E. J. Pearson, Contr., Fidelity Bank Bldg.; Joe T. Wallace, Archt., Bank of Commerce Bldg.; Ralph E. Dippell, Engr., 260 N. Willett St.

Tex., Corpus Christi—J. L. Welch and C. J. Tachedel, 914 Leopard St., receive bids Dec. 23 at office Dielmann & Levy, Archts., State Natl. Bk. Bldg., for 1-story, 100x90 ft., brick, 4-store, Leopard and Waco Sts. 10-10

Tex., Fort Worth—Gateway Land Co., Fort Worth Natl. Bk. Bldg., reported, plans business building on 100x136 ft. site, W. 10th and Macon Sts.

Tex., San Antonio—Wm. Seng, Builders Exchange Bldg., having plans prepared by Atlee B. and Robt. M. Ayers, Smith-Young Bldg., for \$20,000, 100x53 ft., tile and stucco, rein. conc. frame, semi-fireproof store; also for remodeling 2-story building for apartments, \$10,000.

### Theaters

N. C., Charlotte—Pioneer Enterprises, Inc., H. M. Goodhue, Pres., Builders Bldg., purchased old City Auditorium and reconstruct for theatre; \$250,000; W. H. Peeps, Archt., Latta Arcade.

Tex., San Antonio—Edgar G. Uhl leased Empire Theatre on St. Mary's St. and expend \$90,000 for new equipment, improvements and redecorations.

### Warehouses

Fla., Orlando—O'Berry & Hall Co., 237 Earnestine St., having plans prepared by F. J. Kennard & Son, 303 Zack St., Tampa, for warehouse to replace structure burned at loss \$20,000. 12-5

Va., Richmond—Richmond, Fredericksburg & Potomac R. R. Co., E. M. Hastings, Ch. Engr., erect \$100,000 warehouse.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Mo., Lexington—Ancient Free and Accepted Masons let contract to Henry Willems, Holden, Mo., for \$60,000 temple; brick, 3 stories; Felt, Dunham & Kreihu Co., Archt., Balcony Bldg., Kansas City. 8-22

### Bank and Office

Ga., Atlanta—Additional sub-contracts let on \$400,000 five-story first unit of \$800,000 ten-story North Pryor St. Corporation Bldg. under constr.; Limestone, Reed-Powers Cut Stone Co., Inc., Bedford, Ind.; metal windows, Campbell Metal Window Corp., 1 Pershing Square, New York; cement, sand and stone, DeJarnette Supply Co., 1001 Blvd., N. E.; plate glass and show window trim, F. J. Cooledge Co., 12 Forsyth St., N. W.; rein. steel, Southern G-F Co., 263 Decatur St., N. E.; millwork, Phoenix Planing Mill, 719 Highland Ave., N. E.; elevators, Otis Elevator Co., 39 Harris St., N. E., all Atlanta; waterproofing, dampproofing and floor hardener, products of Toch Bros., 443 4th Ave., New York; A. TenEyck Brown Archt., (A Barill, Associate), Forsyth Bldg.; Griffin Construction Co., Contr., 452 Spring St., N. W., both Atlanta. 11-7

Mo., Kansas City—University Building Co., Wm. M. Hall, Hall Bldg., Ninth and Walnut

Sts., erecting 10-story office bldg., 910 Baltimore Ave.; S. Patti Construction Co., Contr., 626 Lee Bldg.; first 3 floors terra cotta, remainder brick with terra cotta trim, 50x125 ft.; Wm. R. Bovard, Archt., Orear Leslie Bldg. 4-15

Mo., St. Louis—Jane Holding Co., remodel 18-story office building, 800-14 Olive St.; \$50,000, brick; Al Monsheim Construction Co., Contr., both Arcade Bldg.

Tex., Fort Worth—Following sub-contracts let on \$2,000,000 18-story Fair Bldg., (store and office) for Jesse H. Jones and John T. Jones, both Houston, under construction by Hewitt Construction Co., Houston, on which concrete has been poured for fifth floor: Brick contract, Eckert-Burton Construction Co., Melba Bldg.; form work, Texas Flexible Form Co.; marble, Vermont Marble Co., 1513 Wall St.; elevators, American Elevator Co., Construction Indus. Bldg.; common brick, Ferris Brick Co., 314 S. Preston St.; excavating, Dallas Transportation Co., 817 Bourbon St.; sprinklers, Rockwood Sprinkler Co., Mercantile Bank Bldg.; steel, Austin Bros., 1813 Clarence St.; cement finishers, Mobley Bros., 6000 Velasco St., all Dallas; face brick, Acme Brick Co., Anderson Bldg.; elect. work, Eugene Ashe Electric Co., 505 Jones St.; painting, D. C. Downs, Capps Bldg.; roofing, Lydick Roofing Co., 100 Missouri Bldg.; millwork, Ingram & Co., W. T.

Waggoner Bldg.; tile, Southland Tile Co., 1728 N. Enderly Place; hardware, Veihl-Crawford Hardware Co., 1605 Maine St.; flooring, Foote Floor Co.; art stone, Fort Worth Art Stone Co.; granite, Texas Pink Granite Co., Chas. E. Roehl, Agt., D. Waggoner Bldg.; floor clips and waterproofing, W. J. McCandless, Capps Bldg.; glass, Pittsburgh Plate Glass Co., 321 S. Main St.; castings, valves, etc., Southern Brass Manufacturing & Plating Co., all Fort Worth; heating and ventilating, Dixie Heating & Ventilating Co., 109-11 Fannin St., Houston, Tex.; plumbing, J. C. Koriolth Plumbing Co., Sherman, Tex.; orna. iron, Southern Ornamental Iron Works, Arlington, Tex.; bulletin boards and directories, Akins Products Co., 120 W. 43rd St., New York; skylights and ventilators, Willis Manufacturing Co., Co., Galesburg, Ill.; mail chutes, Cutler Mail Chute Co., Rochester, N. Y.; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth; The Fair, dept store, to occupy basement and 6 floors. 8-29

Tex., Houston—Following sub-contracts let on \$1,000,000 20-story office bldg. for R. S. Sterling Post Dispatch Bldg., on which steel erection is complete, conc. slabs about complete and outside wall constr. started: Elevators, Otis Elevator Co., 1617 McKinney Ave.; elect. work, Jacobs Bros., 1014 Prairie Ave.; revolving door, Walcott & Maley, West Bldg.; hardware and Lupton windows, Peden Iron & Steel Co., 700 N. San Jacinto St.; mail chute, John C. Mitchell, Stewart Bldg.; painting, N. A. Nelson Painting Co., First Natl. Bk. Bldg.; plastering, Valley Construction Co., Electric Bldg.; plumbing, Dixie Heating & Ventilating Co., 109 Fannin St.; stone, Del Rio Stone Co., Marine Bk. Bldg.; struct. steel, Houston Structural Steel Co., 3910 Washington Ave.; terrazzo and tile, American-Venetian Marble Co., 3203 Polk Ave.; Browne windows, Robt. Voightlander, Electric Bldg., all Houston; elevator, metal and kalamain doors, Weaver Ornamental Iron Works, 1807 Carter St.; lath and lathing, Southwestern Lathing Corp., Construction Inds. Bldg., both Dallas; Hedrick & Gottlieb, Archts.; Bace Construction Co., Contr., both Post-Dispatch Bldg., Houston. 10-10

### Churches

D. C., Washington—Protestant Episcopal Cathedral Foundation has permit for portion of north transept of \$10,000,000 Washington Cathedral under construction; \$350,000; Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass., and 19 Jackson Place, Washington; Geo. A. Fuller Co., Contr., Munsey Bldg., Washington. 7-18

Fla., Clearwater—Peace Memorial Presbyterian Church let contract to J. Paul Clarkson, Clearwater, for gymnasium, gift of Donald Roebling; \$40,000, fireproof, steel, rein. conc. and stucco, stone trim, tile roof, 47x110 ft., seat 900, stage, locker rooms, showers, gymnasium 80x53 ft.; Jonsberg & Wakeling, Archts., Center Natl. Bk. Bldg., Clearwater, and St. Petersburg. 4-4

La., New Orleans—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 100 tons struct. steel shapes for St. Leo the Great R. C. Church; plans by Paul G. Charbonnet, 830 Union St.; Gervais F. Favrot, Contr., Balter Bldg. 12-5

Md., Baltimore — Howard Park M. E. Church, Rev. J. E. Kemp Horn, Pastor, 3506 Gwynn Oak Ave., let contract to Willard E. Harn Co., Inc., 2314 Oak St., for \$75,000 Sunday school and parish house as second unit of group; stone and brick, about 80x125 ft., Gothic type; church later; Buckler & Fenhagen, Archts., 325 N. Charles St.; Henry Adams, Mech. Engr., Calvert Bldg. 12-20-28

Md., Baltimore—Second Church of Christ, Scientist, G. C. Giese, Chmn., Bldg. Comm., 128 Light St., let contract to Price Construction Co., Maryland Tr. Bldg., for bldg. up to first floor level, Liberty Heights Ave. and Dennison Rd.; masonry walls, limestone exterior, struct. steel, rein. conc., about 100x100 ft.; Wyatt & Nolting, Archts., Keyser Bldg.; completed structure \$200,000. 11-21

Md., Baltimore — Central M. E. Church, South, Rev. R. C. Meeks, Pastor, 500 Mt. Holly St., let contract to C. C. Watts, 407 E. 25th St., for \$50,000 Sunday school unit of proposed bldg., Wildwood Driveway; brick, artificial stone trim, 62 x 33 ft., 3 stories and basement, 18 classrooms, auditorium and assembly rooms; slate roof, oil burner; Guy Edward Gaston, Archt., 748 Grantley Rd. 12-5

N. C., Winston-Salem—Following sub-contracts let in \$1,000,000 Centenary-West End M. E. Church, South: Rein. steel, Southern G-F Co., 263 Decatur St., S. E., Atlanta, Ga.; limestone, Indiana Limestone Co., Bedford, Ind.; struct. steel, Carolina Steel &



Iron Co., S. Elm St., Greensboro, N. C.; heating, plumbing and ventilating, Chas. W. Christian, 937 Providence Road, Charlotte, N. C.; elect. work, Richardson-Wayland Electrical Co., 106 Church Ave., Roanoke, Va.; casement sash, International Casement Co., Inc., Jamestown, N. Y.; Slagblok System, Republic Fireproofing Co., New York; toilet partitions, Mills Co., 965 Wayside Road, Cleveland, O.; hollow metal, Jamestown Metal Desk Co., Jamestown, N. Y.; sheet metal and roofing, Budd-Piper Roofing Co., 115 W. Chapel Hill St., Durham, N. C.; granite, Perry Bros. Granite Co., Concord, N. H.; cement, Atlas Portland Cement Co., Franklin Trust Bldg., Philadelphia, Pa.; excavating, Powell Paving Company of North Carolina, Wachovia Bk. Bldg.; mastic flooring, Warner Flooring Co., N. Main St., both Winston-Salem; common brick, Yaddin Brick Co., New London, Conn.; conc. specialties, Universal Form Clamp Co., 972 Montana St., Chicago, Ill.; Mayers, Murray & Phillip and Bertram Goodhue Associates, both 2 W. 47th St., New York, Architects; Walter H. Addison, New York, architects' representative at site; Wiley & Wilson, Heating-Ventilating Engrs., Peoples Natl. Bk. Bldg., Lynchburg, Va.; James Baird Co., Inc., Contr., Reynolds Bldg., Winston-Salem, N. C. 11-7

Tex., Fort Worth — First Church of the Nazarene, Rev. C. P. Clayton, Pastor, 815 E. Jefferson Ave., started work on basement unit of \$30,000 bldg., 511 Elmwood Ave.; brick and rein. conc.; owner builds.

Tex., Houston—First Christian Church awarded contract at \$25,945 to Knutson Construction Co., Union Natl. Bank Bldg., for remodeling church building, Main Street at Bell; Jas. Ruskin Bailey, Archt., Public Natl. Bank Bldg. 10-31

### City and County

La., New Orleans—City, A. S. Montz, Engr., City Hall, let contract at \$19,378 to A. J. Petty & Son, Godchaux Bldg., for 2-story, 25x60-ft., brick fire station, Tulane and S. Robertson Sts.; comp. roof. 11-28

Md., Hagerstown—City let contract to J. B. Ferguson, 39 W. Washington St., for \$100,000 Washington County Museum of Fine Arts; stone trim, brick, 1 story, 50x80 ft., fireproof; Hyde & Shepherd, Archts., 18 E. 48th St., New York. 11-11

Tenn., Johnson City—City let contract at \$8880 to F. E. Laws for fire station, E. Watauga Ave. near Oakland Ave.; Coile & Cardwell, Archts. 11-21

Tex., El Paso—City, W. E. Stockwell, Engr., started work on remodeling City Hall; \$11,439; L. J. Selly & Co., Contrs.; Wm. G. Wuhermann, Archt., Two Republics Bldg. 10-31

Tex., Houston—City let contract at \$43,580 to M. C. Parker & Co., 7627½ Harrisburg St., to remodel and recondition old 4-story brick Scanlon Bldg.; plans by H. L. Shaw, City Engr. 12-5

### Dwellings

Ala., Birmingham—N. L. Miller, American Trust Bldg., let contract to Gibson Construction Co., First Natl. Bk. Bldg., for brick veneer residence; 2 stories, 35x70 ft., hardwood floors, conc. foundation, slate roof; Miller & Martin, Archts.; J. A. Lewis, Engr., both Title Guar. Bldg. 12-5

Ala., Montevallo—Montevallo Cotton Mills, C. E. Meroney, Sec.-Treas., erect 25 to 30 dwellings by day labor; Robert & Co., Inc., Archts.-Engrs., Bona Allen Bldg., Atlanta, Ga. 11-14

Ark., Little Rock—Fred W. Sanders, 608 Walnut St., started work on \$10,000 residence and garage; brick veneer, 2 stories, 8 rooms, comp. shingle or tile roof, oak floors, tile bath; Bracy Real Estate & Building Co., Contr., Rector Bldg.

D. C., Washington—L. E. Breuninger & Sons, Investment Bldg., have permit for \$11,500 dwelling, 7529 Morningside Drive, N. W.; brick and stucco, 2 stories; owners build.

D. C., Washington—Breuninger & Philfer, 1103 Vermont Ave., N. W., erect \$15,000 dwelling, 6000 32nd St., N. E.; brick, 2½ stories; owners build.

Fla., Miami Beach—Mrs. H. Lee Ansterry, 3000 Bay Rd., remodel residence; \$12,000; Jesse Montz, Contr., 4349 Sheridan Ave.

Fla., Miami Beach—Boice & Harborne, 753 Avenue Minorca, Coral Gables, erect \$15,000 dwelling and garage, 2059 Bay Rd.; Anthony DeH. Zink, Archt., Seybold Bldg., Miami; owners build.

La., New Orleans — John F. Clark, Jr., Canal Bk. Bldg., completed foundation for

\$32,500 residence, Jefferson Parish; brick veneer, 2 stories and finished attic, 44x60 ft., oak floors, slate roof; Carl E. Woodward, Archt.-Contr., 703 Louisiana Bldg. 12-12

Md., Baltimore — Saml. E. Coxeter, 3607 Gwynn Oak Ave., started work on bungalow, Croydon Rd., Milford; C. W. Middleton & Sons, Contrs.

Md., Baltimore—Daniel H. Chetelat, 4707 Park Heights Ave., erect 6 frame dwellings, 5300-10 Barbara Ave.; 1 story, 24x33 ft., hot water heat; \$15,000; plans by owner; Jos. M. Chetelat & Sons, Contrs.; 4301 La Salle Ave.

Md., Baltimore—Columbia Construction Co., Munsey Bldg., erect ten 2-story, brick dwellings, 519-37 Collins Ave.; \$32,000.

Md., Baltimore—Buckler Company, Inc., erect \$15,000, 2½-story stone dwelling on Castlewood Road, The Orchards, Charles St. Ave. development; Thomas Hicks & Sons, Inc., Contrs., 106 W. Madison St.; Buckler & Fenhagen, Archts., 325 N. Charles St.

Md., Baltimore—Jacob Sause, 3100 Fair Ave., erect 3 frame dwellings, 3205-09 Bayonne Ave.; 2 stories, 24x33.6 ft., hot water heat; \$12,000; W. C. Hall, Archt.-Contr., 3514 White Ave.

Md., Baltimore—J. S. Downing, Bldr., 2600 Greenmount Ave., erect \$18,000 dwelling and garage, 14 St. Martins Rd., Guilford.

Md., Baltimore—Eleanor J. Turnbull erect \$22,000 brick residence, 6 W. Highfield Rd.; 2½ stories, 64.8x46.6 ft., slate roof, hot water heat; Bayard Turnbull, Archt., 328 N. Charles St.; Ralph MacMurray, Contr., 9 E. Pleasant St.

Mo., Kirkwood, St. Louis—Harry Bortin, care McArdle Construction Co., Contr., 765 Paul Brown Bldg., erect 4 brick and stucco dwellings, Lockwood Gardens; 2 stories and basement, conc. foundation, tile baths, hollow tile, linoleum floors, oil burners, mech. refrigerators.

Mo., St. Louis — Schuermann Building & Realty Co., 6203 Easton Ave., erect 10 brick dwellings, 8116-52 Toddy Margona Place; 1 story and basement, about 27x30 ft., hardwood floors, comp. shingle roof, tile bath, hot air heat; work by sub-contract.

Mo., St. Louis—W. A. Kelley, 7733 Brookline Terrace, erect \$11,000 brick residence, Algonquin Woods; 1½ stories and basement, 30x31 ft., hardwood floors, tile bath, slate or tile roof, hot air or hot water heat; work by sub-contract.

Mo., St. Louis—Morton Jourdan, 506 Olive St., let contract to Higbee Bros. Construction Co., 4164 Delmar Blvd., for \$65,000 brick residence, 6121 Lindell Blvd.; 2 stories, 80x65 ft., slate roof; Maritz & Young, Inc., Archts., Chemical Bldg. 12-5

Mo., University City, St. Louis—J. C. Aufenberg, 3137 Locust St., erect \$10,000 brick residence, 7361 Northmoor St.; 1½ stories and basement, 26x30 ft., hardwood floors, tile bath, asphalt shingle roof, hot air heat; Harold Neuman, Contr., 5562 Devonshire St.

Mo., University City, St. Louis—Berkley Construction Co., 6625 Devonshire St., erect 3 brick dwellings, 7460-66-70 Gannon Ave.; 1 story and basement, 25x43 ft., tile bath, hardwood floors, comp. shingle roof, hot air heat; work by sub-contract.

Mo., Webster Groves, St. Louis—A. H. Stein, 417 Summit Ave., let contract to E. A. Stein, 4310 Washington Ave., St. Louis, for 2-story brick residence; G. Walf, Archt., 776 E. Big Bend Rd., Webster Groves.

N. C., Charlotte—Lex March Co., 24 E. Tryon St., erect about 40 dwellings, connection with development near Myers Park Country Club; \$350,000.

N. C., Charlotte—Lex March Co., 24 E. Fourth St., started work on duplexes; \$35,000; plans additional dwellings in early spring.

Tenn., Knoxville — Jesse Miller, care J. Allen Smith & Co., Depot & Century Sts., erect \$15,000 residence, Kingston Pike; brick, 2 stories, 9 rooms, tile roof; Peckinpaugh Construction Co., Contr., 711 20th St.

Tenn., Memphis—Dr. V. R. Mason, 2825 188 S. Dudley St., for stucco and field stone Florida St., let contract to J. H. Moselage, residence; 1 story, 40x80 ft., hardwood floors, tile bath, comp. roof; Geo. Mahan, Jr., Archt., Manhattan Bk. Bldg. 11-7

Tenn., Memphis—W. M. Swift, Goodwyn Inst., let contract for \$15,000 residence to R. N. Morris, 2204 Cowden St.; brick, 11 rooms, 2 stories, 60x50 ft., hardwood floors, tile baths, asbestos roof; Geo. Mahan, Jr., Archt., Manhattan Bk. Bldg. 10-17

Tex., Fort Worth—Fort Worth Extension Co., completed frame for \$25,000 dwelling,

Lloyd Drive, Westover Hills; brick and tile, 2 stories, 36x48 ft., comp. roof, tile baths, oak floors; owner builds.

Tex., Harlingen—John Morris, Jr., erect conc., brick and stucco residence and garage; 2 stories, about 65x25 ft., tile, cement and wood floors, tile roof; Lloyd E. Mellor, Archt., Baxter Bldg., Harlingen; W. E. Simpson & Co., Consult. Engrs., Milam Bldg., San Antonio; Walter F. Chambers, Contr., Farmers Bk. Bldg., San Benito.

Tex., Midlothian—M. A. Dillard erect \$14,000 residence; brick veneer, 1½ stories and basement, 68x53 ft., tile porch, 2 tile baths, hot air heat; L. B. Weinman & Sons, Archts., Texas Natl. Bk. Bldg.; day labor.

Tex., Pendleton—Asa Neal erecting 7-room brick veneer residence, 15th St. and Troy Highway.

Va., Covington — J. S. Mathers is laying brick for \$20,000 brick and hollow tile residence; 2 stories and basement, about 70x25 ft., wood, flagstone and tile floors, slate or tile roof; Louis Philippe Smithey, Archt., 112 Kirk Ave., Roanoke; owner builds.

Va., Lexington—M. W. Paxton, Jr., started work on brick veneer residence; 2 stories and basement, about 77x22 ft., wood floors, conc. foundation, slate roof; Louis Philippe Smithey, Archt., 112 Kirk Ave., West, Roanoke; Chas. W. Barger, Lexington, contract at \$13,688.

Va., Roanoke—Dr. H. B. Stone, Shenandoah Life Bldg., completed rough framing for brick and Stone-Tile residence; 2 stories and basement, about 92x30 ft., wood, flagstone and tile floors, tile roof; Louis Philippe Smithey, Archt., 112 Kirk Ave., West; O. M. Dickerson, 1502 Campbell Ave., S. W., contract at \$32,500.

### Hospitals, Sanitariums, Etc.

Ky., Louisa — Dr. L. S. Hayes erecting Louisa General Hospital, Lock Ave.; brick, 2 stories, 30 beds.

Tex., Beaumont—Beaumont General Hospital, Dr. H. E. Alexander, Pres., let contract to Herman Weber, Perlstein Bldg., for addition to hospital and clinic, Broadway; 4 stories and basement, 4 operating rooms, 36x50 ft. sun parlor on top floor; \$175,000; Live-say & Wiedemann, Archts., San Jacinto Life Bldg. 9-26

### Hotels and Apartments

Ala., Anniston—Oglethorpe Construction Co., 11th St. and Railroad, Gen. Contr. for \$300,000, 6-story, 130-room hotel for Calhoun Hotel Co., let tentative sub-contracts: Plumbing and heating, Klepsig Plumbing & Heating Co., Anniston; electric, Electro Construction Co.; plastering, Jacobson Plastering Co.; elevator fronts, kalamein doors, Luke Seawall, 144 Spring St., N. W., all Atlanta, Ga.; refrigeration, Haralson Sales Co., 625 S. 18th St.; partitions, Vulcan Tile & Brick Co., 2103 1st Ave., N.; brick and tile, Stephenson Brick Co., 2027 4th Ave., N.; misc. and orna. iron, Birmingham Ornamental Iron Co., 417 W. Pinson St., all Birmingham; Indiana limestone, Southern Cut Stone Co., Bowling Green, Ky.; Alabama limestone, Rockwood Alabama Stone Co., Russellville; tile, terrazzo and marble, Acme Tile Co., Gadsden; millwork, Acme Builders Supply Co., 8th Ave. & A St., Meridian, Miss.; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 9-5

D. C., Washington—Harry M. Bralove, Bldr., 1006 Vermont Ave., N. W., excavating for 8-story, rein. conc. and brick apartment hotel, Calvert St. between Woodley Road and 28th St.; 3 units of about 1000 rooms.

Ga., Atlanta—H. W. Nicholes, 142 Brighton Road, erect \$30,000, 1-story and basement, brick veneer, 14-apartment, 734 Argonne Ave., N. E.; comp. roof, hardwood and tile floors, steam heat; owner, Archt.-Bldr.

Ga., Atlanta—J. E. Manvey let contract to Griffin Realty & Construction Co., 452 Spring St., N. W., for 2-story and basement, brick veneer, 4-apartment on E. Victory Drive; comp. roof, hardwood and tile floors.

Mo., Maplewood, St. Louis—W. M. Lawler, Buder Bldg., erect 3-story and basement, 22x56 ft., brick, 6-apartment, 7505-07 Folk Ave.; comp. roof, hardwood floors, terra cotta trim, steam heat; Vincent G. Mueller, Archt., 7340 Laveta St., Richmond Heights; owner builds.

Mo., Maplewood, St. Louis — Leroy-Scott Realty Co., Pontiac Bldg., has permit for \$12,000, 2-story, brick apartment 7505-07 Folk St.; owner builds.

Mo., St. Louis—Barth Building & Real Estate Co., 4149 Gravois Ave., erect four 2-

story, 19x45 ft., brick tenements, 4137-43 Alma Ave.; \$20,000; tar and gravel roofs, hot air heat; owner, Archt.-Bldr.

N. C., Asheville—John H. Lange Estate, Commerce Union Trust Co., Trustee, let contract to Dion A. Roberts, 17 Church St., for \$100,000, 3-story, 60-room hotel on site Glen Rock Hotel; 300 ft. frontage, 9 store-rooms on first floor, rein. conc., brick and tile, comp. roof, steam heat; H. I. Gaines, Archt., Flat Iron Bldg. 10-31

Okla., Oklahoma City—H. A. Campbell, 306 W. 34th St., started work on \$25,000, 40x70 ft. brick veneer apartment.

Tex., Fort Stockton—Rainwater & Meadows, Contrs., started work on \$25,000, brick veneer 8-apartment, Fifth and Missouri Sts.

Tex., Marlin — Following sub-contracts awarded on 8-story, 110-room Hilton Hotel under construction for Hilton Hotel Co., Dallas, for which Nathan Wohlfeld, Construction Bldg., Dallas, has general contract: Waterman Brick & Tile Co., Waskom, Tex.; Stephens-Carothers Lumber Co., 1719 Franklin Ave.; C. H. Ruebeck Co., 218 S. 11th St.; Texas Sand & Gravel Co.; C. M. Trautschold Schimming & Eddins, Marlin; Murphy Door-Red Co., 1919 Pacific Ave.; Mosher Steel & Co., 15th St. and Franklin Ave., all Waco; Machinery Co., Maple Ave. Road; Williamson-Greer Co., 3015 Grand Ave.; Gilbert Manufacturing Co., Marvin Bldg.; Pittsburgh Plate Glass Co., Santa Fe Bldg.; Samuel A. Ellsberry Co., 2306 Griffin St.; Southern States Steel Co., 503 S. Haskell Ave.; Weaver Ornamental Iron Works, 1807 Carter St.; Atlanta Terra Cotta Co., Praetorian Bldg.; R. J. DeWees Co., 3015 Grand Ave.; Concrete Engineering Co., Master Builders Co., both Construction Bldg.; Concrete & Building Specialties Co., Burt Bldg.; Berger Manufacturing Co., 2101 Corinth St.; Vermont Marble Co., 1513 Wall St., all Dallas; Pyramid Stone Co., National and Center Sts.; Houston Excavating Co., 2316 Capitol Ave.; Bedford-Carriage Stone Corp., Box 161, all Houston; Lee Faulkner, Box 594, Fort Worth; Curtis & Thomas, Archts., Construction Bldg., Dallas. 12-5

Va., Richmond—Colonial Investment and Mortgage Corp. excavating for \$100,000, 3-story 50x110 ft., brick, 30-apartment, 411-13 W. Franklin St.; plans and construction by Max E. Ruehrmund, Archt., State Planters Bank Bldg.

### Miscellaneous

D. C., Washington—Episcopal Home for Children, D. Lee, Pres., 2112 Massachusetts Ave., N. W., reported, let contract to J. L. Parson, 1427 Eye St., N. W., for dormitory and administration building, Nebraska Ave. and Rock Creek Ford Road, N. W.; \$207,000, 2 stories, brick; Appleton P. Clark, Jr., Archt., 816 Fourteenth St., N. W. 7-18

Md., Bethesda—Baptist Home for Children, R. Hilton Jackson, 904 Newton St., N. E., Washington, D. C., reported, let contract to Morrison Bros., Bk. of Bethesda, for 2 dormitories; \$157,750, 2 stories, stone; Appleton P. Clark, Jr., Archt., 816 Fourteenth St., N. W., Washington. 8-29

### Schools

Ala., Birmingham—Bd. of Education, D. E. McKinley, Bus. Mgr., let contract at \$139,831 to Smallman Construction Co., 1109 Fifth Ave., S., for first unit of West End High School; plumbing, \$9024, Mason & Dullion, 3024 Third Ave., S.; heating and ventilating, \$15,256, Tulley Plumbing & Heating Co., 2612 Second Ave., N.; wiring, \$12,779, Bagby Elevator & Electric Co., 3115 Third Ave., N.; 2 stories and basement, 296x6 ft., 12 classrooms, auditorium, physical training room, electric shop, woodwork shop, library, general science room, biology room and 2 study rooms; ultimate plans call for \$750,000 structure, 668x250 ft., athletic field to occupy area of 330x560 ft.; on either side of athletic field to be stadium to seat 2500 people each; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham; Wm. B. Ittner, Inc., Conslg. Archt., 911 Locust St., St. Louis, Mo. 12-5

Fla., Sarasota—Sarasota County Bd. of Public Instruction let contracts at \$1790 to Logan & Currin, 425 Rawls Ave., for boiler room in High School and at \$1590 each for Bayhaven and Southside school boiler rooms; let contracts to J. B. Green, 204 Lemon Ave., at \$9900 for heating plant in High School and at \$7950 each for heating plants in 2 elementary schools. 11-21

Ga., Hamilton—Mountain Hill School Dist., Fred Smith, Sec., let contract at \$39,450 to Snelling Lumber Co., Phoenix City, Ala., for 1-story and basement, 204x56 ft., brick school; Indiana limestone or terra cotta trim,

tile roof; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both Marietta Bldg., Atlanta. 11-28

Md., Baltimore—Bd. of Awards, Room 324, City Hall, let contract at \$229,900 to P. C. Streett Engineering Co., 404 St. Paul St., for Brehm's Lane School; 2 stories and basement, stone and conc., 16 classrooms and kindergarten, industrial arts rooms, home economics room and lunchroom; McKenzie & Cross, Archts., Professional Bldg. 12-5

Md., Towson — Baltimore County School Bd., S. Shoemaker, Pres., let contract to Thomas Hicks & Sons, Inc., 106 W. Madison St., Baltimore, for 2-story, brick, 12-classroom and auditorium Stoneleigh Public School on Pemberton Road, Stoneleigh; Smith & May, Archts., Calvert Bldg.; Huldreich Egl, Mech. Engr., 425 St. Paul St., both Baltimore. 10-9

Miss., Drew—Bd. of School Trustees, W. H. Hall, Pres., let contract at \$35,846 to Fowler & Oden, Hattiesburg, for 2 story, 142x120 ft., hollow tile and stucco high school; tile and comp. roof; J. M. Spain, Archt., Millsaps Bldg., Jackson. 11-28

Miss., Raymond—Hinds County Agricultural High School and Jr. College, R. E. L. Sutherland, Pres., let contract to H. J. Mashburn, Utica, for 1-story, 80x32 ft., frame dairy barn; conc. floors and foundation, comp. shingle roof; J. M. Spain, Archt., Millsaps Bldg., Jackson. 11-28

N. C., Durham—North Carolina College for Negroes, R. L. Flowers, Chmn., let contract to Home Construction Co., for \$50,000 dining hall and kitchen; Atwood & Nash, Inc., Archt., Chapel Hill. 11-14

Okla., Skiatook—School Bd. erect \$20,000, 2-story, brick grade school; A. J. Love & Co., Archts., Atco Building and Loan Bldg., Tulsa. 11-28

Okla., Tuttle—Bd. of Education let contract to Maddox & Morrison, El Reno, for \$45,000 high school; The Butler Co., Archts., Insurance Bldg., Oklahoma City. 10-31

S. C., Pickens—Town Creek School Dist., John W. Hendricks, Chmn., let contract to Nalley Lumber Co. for \$18,000, 1-story and basement, 100x87 ft., brick veneer school; Jas. G. Cunningham, Archt., Greenville. 12-12

S. C., Walterboro — School Bd., W. H. Ward, Supt., started work on \$15,000 brick addition to high school; D. C. L. Hiers, Contr.; J. B. Urquhart, Archt., Columbia Natl. Bk. Bldg., Columbia. 11-7

Tenn., Carter—Carter County School Bd., W. W. Morris, Supt., Elizabethton, let contract at \$12,259 to M. C. Thompson, 2803 Wilson Ave., Knoxville, for 4-classroom and auditorium addition to school. 11-21

Tex., Alpine—Bd. of Trustees, Sol Ross State Teachers College, H. A. Turner, Sec., Texas Bank & Trust Co., Sixth and Brazos Sts., Austin, let contract at \$144,750 to R. E. McKee, 1918 Texas St., El Paso, for 3-story, brick, hollow tile and rein. conc. library; T shape, 200x60 ft., with 105x57-ft. extension, cast stone trim, wood, cement, tile, marble, terrazzo and linoleum floors; Trost & Trost, Archts., Two Republics Bldg., El Paso. 11-28

Tex., College Station — Agricultural and Mechanical College of Texas excavating for \$185,000, 4-story, 35x272 ft., conc., brick and hollow tile, 80-room dormitory; cement and terrazzo floors, comp. built-up roof; to be built by Dept. of Bldgs. and College Utilities under supervision of W. A. Orth; Prof. F. E. Giesecke, College Archt. See Want Section—Building Material and Equipment. 12-12

Tex., Hearne—School Bd., J. T. Hamilton, Pres., let contract at \$76,000 to Eckert Burton Construction Co., Dallas, for 2-story, brick, stone and rein. conc. high school, 1-story, brick and rein. conc. negro school and remodeling old high school; Page Brothers, Archts., Littlefield Bldg., Austin. 11-28

Tex., San Antonio—Bd. of Education, J. G. Hornberger, Pres., let contract at \$31,295 to Martin Ebert, 407 Devine St., for 6-classroom and assembly hall addition to Riverside Park School No. 23; Albaugh & Steinbomer, Archts., Real Estate Bldg.; let contract at \$7405 to Allen & Allen, 217 Fredericksburg Road, to remodel Herff School; Phelps & Dewees, School Archts., Hicks Bldg. 12-12

### Stores

Miss., Meridian—Mitchell Gilco, 916 Rubush Ave., erect \$12,000, 1-story and basement, brick building, 3 St. and 22nd Ave. for National Biscuit Co., 300 26th St.; work under supervision R. M. McElroy, 1626 26th St.; Frank Fort, Archt., 1306 25th Ave. 11-14

Mo., Cape Girardeau—Dormeyer Drug Stores, Marquette Hotel Bldg., excavating for \$10,000, 1-story and basement, 30x80 ft., brick and hollow tile store, Broadway and Henderson Sts.; Sam R. Smith, Contr., 3 S. Pacific St.; Reither & Lindsay, Archts., H. Bldg. 9-26

Mo., St. Louis—Woolf Bros., H. M. Woolf, Pres., 1022 Walnut St., Kansas City, remodel building, 8th and Olive Sts.; store front and general interior alterations, new fixtures, elevators, marble, tile and terrazzo work; Whitcomb Engineering Co., Engr., 14th and Chestnut Sts., Kansas City; Alfred Monschlein, Contr., Arcade Bldg., St. Louis.

Mo., St. Louis — Automobile Department Stores, J. D. Weakley, Pres., 718 N. Kingshighway Blvd., let contract to Chas. H. Schroeder Building & Construction Co., 2806 N. Grand Blvd., for improvements and addition to 2-story and basement, 112x120-ft. brick store; Aegerter & Bailey, Archts., Ry. Exchange Bldg.

Mo., St. Louis—Benbow Realty & Investment Co., Fullerton Bldg., erect \$15,000, 1 and 2-story, 47x145 ft., brick store, 3105-07 Pine St.; asphalt roof; W. C. Harting Construction Co., Contr., 722 Chestnut St.; Nolte & Nauman, Archts., 3832 W. Pine St.

Okla., Muskogee—J. C. Cook, Dallas, Tex., O. R. Hise, Local Rep., excavating for \$20,000, 1-story, 100x90 ft., brick, 4-store, W. Broadway near 9th St.; S. R. May, Contr., 1606 Walnut St., Muskogee.

Tex., Dallas — Watson Company, Contr., 1927 S. Akard St., soon start work on remodeling Wilson Bldg. and old W. A. Green location for stores; \$250,000; annex of 12 stories, formerly occupied by Titcher-Goettinger Co., will be leased by W. A. Green Co., 1516 Elm St., who will install new fixtures, rebuild front, add elevator shaft, new equipment for 4 lifts, etc.; store space facing Elm and Ervay Sts. leased to F. & W. Grand Co.; Main and Ervay side of building to be occupied by Skillern's Better Service Drug Stores; also remodel old W. A. Green store for Schulte-United, Inc.

### Theaters

Va., Martinsville—M. S. Schottland erecting 1-story, 80x194 ft., brick, non-fireproof theatre and store; wood, terrazzo and tile floors, built-up roof; Finley & McCoy, Contr., fee basis; Louis Philippe Smithy, Archt., 112 Kirk Ave., W., Roanoke. 9-5

### Warehouses

La., Monroe—L. L. Lieber, 1611 Jackson St., started work on \$10,000, 1-story, brick warehouse, 6th and Olive Sts.; W. C. Salley, Contr., Ouachita Natl. Bank Bldg.; Southern Glass Co., Lessee.

Mo., St. Louis—J. D. Street & Co., J. D. Street, Pres., 4052 Park Ave., erecting 1-story, 60x120 ft. warehouse.

Mo., St. Louis—Jefferson Tent & Awning Co., 3100 Pennsylvania Ave., let contract to Leonard Haeger, 3844 Utah Place, for \$12,000, 1-story, 85x70ft. brick warehouse.

Tex., Fort Worth—W. R. Rose erect \$15,000, 1-story, 75x100 ft., rein. conc. and steel warehouse, 268 W. 15th St.; Echols Bros., Contrs., 1010½ Main St.

Tex., Houston—R. C. Parks, Bankers Mortgage Bldg., started work on \$30,000, 1-story, 92x120 ft., brick and steel warehouse, 3902 Alameda St.; M. F. Taylor, Contr.; Chas. S. Chase, Jr., Archt., Post Dispatch Bldg.; Texas-Walgreen Co., 140 Fannin St., Lessee. 10-31

### Dallas Insurance Companies

#### Merge

Dallas, Tex.—Harry L. Seay, president of the Southland Life Insurance Company, announces his company has acquired the capital stock of the American Life Insurance Company, Dallas, and the physical assets of the latter will be absorbed within the next three months. The combined insurance in force of the two companies on December 31 will be \$200,000,000, it is estimated, with combined assets on the same date of approximately \$19,000,000. A. C. Bigger is president of the American Life Insurance Company.



# WANT SECTION

## THE CLASSIFICATIONS IN THIS SECTION ARE:

### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

### Machinery and Supplies

**Creosoting Plant.**—Oliver Carter (Mchy. Dealer), Wilmington, N. C.—Wants prices and data on complete creosoting plant.

**Pump (Steam Driven).**—Gorman L. Burnett, Inc., P. O. Box 291, Lynchburg, Va.—Wants prices and data on steam driven pump to deliver minimum of 100 g. p. m. water to total head of 100 ft.; turbine driven, direct connected centrifugal pump preferred.

**Nachonichi Farms.** P. W. McKittrick, Prop., Nacovich, R. F. D. 2, P. O., Garrison, Tex.—Wants prices and data on following:

(1) **Dehydration Plants**—to handle 4 to 6 tons daily

(2) **Slicers and Pulverizers**—used in dehydration plants.

**Aeronautical Retarding Gear.** Inc., R. T. Lipscombe, Industrial Engr., 507 E. Franklin St., Richmond, Va.—establish plant to manufacture mechanical controlling devices for airplanes and wants prices and data on machinery, equipment and stamped out or machined parts ready for assembly work.

**Mid-West Iron Co.,** 813 Walnut St., Kansas City, Mo.—Wants prices and data on following:

(1) **Cars (Box)**—several, similar to automobile or furniture cars, used, good condition, for handling bulky commodity or light weight

(2) **Cars (Tank)**—several, 10,000 gal. capacity Nantahala Company, Andrews, N. C. (Later incorrectly noted as Nantahala Power & Light Co.) wants the following immediately:

**Water Wheel.**—48, 54 or 60-in. vertical, 12 to 14 ft. head, new or used

**Pump (Mine Unwatering).**—to handle 3,000 gal., 90 ft. head to operate suspended from shaft collar, electrically driven; new or used

**Generators.**—one 200 kw., 3 phase, 60 cycle belt driven; 220 or 440 volt complete with switchboard, exciter and pulley, new or used.

**National Equipment Co.,** 400 W. First St., Bloomington, Ind.—Wants prices and data on following:

(1) **Gyratory Crushers**—2, No. 5, Style K. or equal

(2) **Jaw Crusher**—36x48 in. or larger

(3) **Loaders**—3, No. 42, Barber-Greene

(4) **Locomotives**—3, 50 ton, saddle tank, 4 wheel

(5) **Motors**—1, 150 h. p., 550 volt, 900 r. p. m.; 3, 50 h. p., 550 volt, 1200 r. p. m.; 2, 35 h. p., 550 volt, 1200 r. p. m.; all motors complete with starters

(6) **Stone Channeled**—Ingersoll Rand, air-electric, to cut off vertical

(7) **Shovel (Rock)**—3-yd., electric, crawler type.

**Tube Mill.**—Riverton Lime Co., Riverton, Va.—Wants prices on used tube mill, 5 ft. 6 in. x 20 ft., first class condition.

### Miscellaneous

**Cement.**—S. S. Summey (Gen. contr., cement paving), 701 N. Washington St., Shelby, N. C.—Wants to represent cement manufacturers.

**Cutlery.**—A. R. McElhany (Broker and Sales Agt.), Box 378, Rock Hill, S. C.—Wants prices and data on pocket knives, razors, scissors and safety razors.

**Septic Tanks, etc.**—Morarko Beach Corp., Woodruff Bldg., Springfield, Mo.—Wants prices and data on septic tanks and auxiliary equipment, including plumbing, sewer pipe, etc., for individual homes at large resort.

**Tote Boxes.**—H. W. Font Le Roy, 525 Calvert Bldg., Baltimore, Md.—Wants prices and data on large number of tote boxes of fabricated sheet steel.

**Ant-I-Ant Insecticide Co., Inc.,** 2200 Lake Worth Rd., Lake Worth, Fla.—Wants prices and data on following:

(1) **Boxes (Cardboard)**—small

(2) **Cans (Tin)**

(3) **Chemicals and Drugs**

(4) **Printing and Labels**

(5) **Spray Guns.**

### Building Material and Equipment

**J. M. Spain, Archt.,** Millsaps Bldg., Jackson, Miss.—wants prices on following for \$45,000 high school, Drew, Miss.:

**Roofing**—built-up, tile

**Tile**—hollow

**Terra cotta Trim.**

**Prof. F. E. Giesecke, Archt.,** Agricultural and Mechanical College of Texas, College Station, Tex.—wants prices on following for \$185,000, 80-room dormitory:

**Cast Stone**

**Roofing**—built-up

**Tile**—hollow, interior.

**R. E. Meekins & Son, Contrs.,** Trinity, Tex.—want prices on following for \$10,000 residence work, Huntsville, Tex.:

**Flooring**—hardwood.

**Roy K. Hamberlin, Archt.,** 807 Builders Exch., San Antonio, Tex.—wants prices on following for 1-story bank bldg., McCamey, Tex.:

**Cast Stone**

**Limestone**

**Metal Ceilings**

**Roofing (flat)**—built-up

**Tile**—hollow

**Vaults.**

**Rev. Marvin G. Brotherton, Pastor,** Methodist Church, South, Silverton, Tex.—wants prices on following for \$20,000 church:

**Flooring**—linoleum, composition

**Rolling Partitions**

**Roofing (flat)**—built-up

**Wire Glass.**

**Donald McCormick, Archt.,** Atlas Life Bldg., Tulsa, Okla.—wants prices on following for building for Tulsa Little Theatre, Inc., First Natl. Bk. Bldg.:

**Cast Stone**

**Flooring**—hardwood, linoleum

**Limestone**

**Roofing**—built-up

**Steel Sash and Trim**

**Tile**—gypsum, hollow

**Terra Cotta Trim.**

**Geo. R. Dempster, City Engr.,** Knoxville, Tenn.—wants prices on following:

**Hangars**—2 or more, used, 100x100 ft., so constructed as to be easily knocked down and moved

**Rev. J. L. Rucker, 1008 E. Church St.,** Knoxville, Tenn.—wants prices on following for \$10,000 bldg.:

**Roofing (hip)**—asphalt shingle.

**W. J. A. Cronin, Contr.,** Pearhill, Tex.—wants prices on following for post office bldg.:

**Steel Sash and Trim.**

### Bids Asked

**Acetylene Gas and Oxygen.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 23 for acetylene gas and oxygen, delivery Quantico, Va.

**Automobiles.**—City Council, Council Chamber, City Hall, Greensboro, N. C.—Bids Jan. 7 for passenger automobiles; two 2-door sedans or coach model passenger cars, and four 4-door sedan model passenger cars.

**Bags.**—Ch. of Engrs., Munitions Bldg., Washington, D. C.—Bids Jan. 3 for 150,000 burlap bags for sand, with binder.

**Desks and Ralls.**—Supervising Archt., Treasury Dept., Washington, D. C.—Bids Dec. 30 for desks and ralls, Internal Revenue Bldg., Washington.

**Filters.**—U. S. Coast Guard Headquarters, Washington, D. C.—Bids Dec. 23 for 5 airplane gasoline filters.

**Furniture, Filing Equipment, etc.**—State Road Dept., Tallahassee, Fla.—Bids Dec. 31 for furniture, filing equipment and supplies.

**Garage Supplies.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 26 for garage supplies, delivery Quantico, Va.

**Gasoline, Kerosene and Fuel Oil.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 26 for gasoline, kerosene and fuel oil.

**Generator Unit.**—See Water Works.

**Gravel.**—Louisiana Highway Comm., H. B. Henderlite, State Highway Engr., Baton Rouge, La.—Bids Dec. 31 for washed and screened gravel, 40% sand-clay gravel, reef shell, clam shell, crushed limestone, slag and sand.

**Machine Shop Equipment, etc.**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 3 for internal grinding machine; Jan. 7 for motor driven shaper and motor driven power groover machine.

**Machine Shop Equipment, etc.**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 7 for following: Motor driven single cabinet surfacer, hoes, picks, prickers, rakes, shovels, motor driven shaper; Jan. 14 for clamps, emery-wheel and glass cutters, tool holders, punches, sockets, nail sets and spikes.

**Miscellaneous.**—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Jan. 2 for following, Sch. 2514:

**Automobile chassis, motor station wagon, metal signs, files, reamers, wire-gauge drills, stocks-and-dies, boiler-feed pumps, life rafts, water breakers, shovels, etc.**

**Miscellaneous.**—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Dec. 23 for following Sch. 2513:

**Anchors, marine lights, carlocks, stillson wrenches, monkey wrenches, chisels, cross-cut saws, scythe blades, turnbuckles, claw bars, boilermaker's ratchets, hand taps, etc.**

**Paint, etc.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 23 for paint, etc., delivery Quantico, Va.

**Pipe (Cast Iron).**—See Water Works.

**Pipe (Sewer).**—Office Constructing Q. M. Hodgenville, Ky.—Bids Dec. 27 for sewer pipe for Lincoln Birthplace Memorial.

**Pipe (Reinforced Concrete).**—See Sewers.

**Pipe (Vitrified).**—See Sewers.

**Pumps, etc.**—Contracting Officer, Q. M. Corps, Ft. Monroe, Va.—Bids Jan. 2 for 2 horizontal duplex pumps, motor driven belt or gear connected; 2 horizontal centrifugal pumps, motor driven, direct connected; dry feed lime machine, motor driven gravity solution feed, and 2 vertical pressure filters.

**Pump and Motor.**—See Water Works.

**Roads.**—Clayton, St. Louis, Mo. Bids for roads. See Construction News — Roads, Streets, Paving.

**Roads.**—Texas-Oklahoma. Bids for 2 bridges. See Construction News—Bridges.

**Sewer.**—Bd. of Awards, Baltimore, Md.—Bids Dec. 26 for storm drains, Storm Water Cont. 138; work includes 864 ft. 48-in., 1242 ft. of 42-in., 222 ft. of 36-in., 1320 ft. of 33-in., 30 ft. of 30-in., 828 ft. of 27-in., 878 ft. of 24-in. diam. rein. conc. pipe drain; 707 ft. of 21-in. and 24-in. 3456 ft. 15-in. and 18-in., 4504 ft. 10-in., 12-in. and 9950 ft. of 8-in. dia. vit. pipe sewers; vit. pipe house connections; underdrains, etc.; Milton J. Ruark, Sewerage Engr.

**Sewers.**—Sewer Improvement Dist. No. 1, Bald Knob, Ark., J. Q. Adams, Sec.—Bids Dec. 23 for materials and construction sanitary sewer system, disposal tank and structures; William Crooks Engineering Corp., Engrs., 703 Home Insurance Bldg., Little Rock.

**Steel (Reinforcing).**—Police Jury of Caddo Parish, Shreveport, La.—Bids Jan. 1 for rein. steel; 10,000 lb. ¾ in. round; 2000 lb. ½ in. round; 50,000 lb. ½ in. square; all new billet, intermediate grade, deformed, and with net area equal to smooth bars of specified sizes; 40 ft. lengths; J. T. Bullen, Parish Engr.

**Transformer Station.**—See Water Works.

**Truck.**—U. S. Engr. Office, Huntington, W. Va.—Bids Dec. 26 for truck, 2 ton, latest model, for U. S. repair station, Marietta, Ohio.

**Tractors.**—County Auditor of Dallas County, Dallas, Tex.—Bids Jan. 6 for one or more 30, 40 and 60-h.p., crawler type tractors for use in Dist. No. 1.

**Tugboat (Diesel Driven).**—U. S. Engr., Office, Poland and Dauphine St., New Orleans, La.—Bids Jan. 15, 1930 for constructing and delivering afloat 65 ft. 6 in. steel Diesel driven tugboat.

**Water Works.**—Town of Greenville, Ala., C. E. Hamilton, Jr., Mayor—Bids Jan. 8th for improvements to water plant and extension to distribution system; work includes following: Gas driven generator unit complete; one 750 g. p. m. pump and motor; deep well complete with pump and motor; transformer station; pressure pump house; deep well pump house; 285 cu. yds. Class A water tight conc.; one layout of misc. piping at water plant; 4500 ft. of 6-in. Class B, H. & S. c. l. pipe; Robt. L. Totten, Inc., Consol. Engrs., Birmingham, Ala.

**Wire Mesh.**—U. S. Engr. Office, Kansas City, Mo.—Bids Jan 3 for 1540 rods wire mesh.

## Trade Literature

**Cross Drum Boiler.**—Erie City Iron Works, Erie, Pa., recently issued a bulletin illustrating and describing the new Erie City cross drum boiler, built in 42-inch, 48-inch and 54-inch diameters. The boiler is designed to meet low headroom conditions and to utilize any standard firing method.

**Industrial Posters.**—The Simpson Advertising Company, St. Louis, Mo., has issued a pamphlet describing its industrial posters produced specially for the Manufacturers and Merchants Association of St. Louis, and outlining methods for their use. The posters are intended to promote wholesome influences in office and factory.

**Flexible Couplings.**—A 16-page booklet on the use and construction of the Diamond-Clark flexible coupling has been published by the Diamond Chain and Manufacturing Company, Indianapolis. Illustrations show the simplicity of the coupling, consisting of three major parts, and emphasize the ease of installation and disconnection.

**Cooling Towers.**—The Edwin Burhorn Co., Bayonne, N. J., is distributing a pamphlet illustrating and describing the installation of the Burhorn Smaltower cooling system in the Fischer Baking Company plant at Newark, which will effect a saving in the use of city water, it is claimed, at the rate of \$1600 annually.

**Graphite for Protection.**—The September-October number of Graphite, published by the Joseph Dixon Crucible Company, Jersey City, N. J., among other features presents a description of the use of Dixon's red lead-graphite as a primer and Dixon's industrial (silica-graphite) paint as a top coat for protection of the huge steel span of the Cooper River Bridge at Charleston, S. C.

**Coal Conversion.**—A pamphlet is being distributed by the Coal Conversion Corporation, New York, outlining the "CCC" process for development of a multi-product industry based upon bituminous coal. The statement is made that the processing of soft coals by this method of true primary carbonization yields three new and needed products—by-product mineral charcoal, high heat value gas and true primary coal oils.

**Industrial Survey.**—An industrial survey of Bessemer, Ala., compiled and published by the Bessemer Chamber of Commerce, is being distributed in pamphlet form. The survey presents information dealing with the varied resources of the community such as geographical location, transportation facilities, proximity to fuel, iron-ore, steel, limestone, lumber and agricultural products, climate, water, sources of power, schools, churches, lakes and resorts, recreational facilities, etc.

**Flordene Stone.**—A brochure devoted to a description of Flordene stone and presenting illustrations showing some of its uses for structural and decorative purposes, has been issued by the Johns-Manville Corporation, New York. This product, in soft neutral buff color varied in shade, is said to be closely related geologically to various imported travertines.

**Oxwelded Piping.**—The Linde Air Products Company, New York, is distributing a booklet on the installation of Oxy-Acetylene welded piping for industrial uses and for heating domestic and industrial buildings. The first section deals with the use of this piping for transportation of oil, gas, chemical, water, etc., while the second section is devoted mainly to piping for heating and heating systems.

**Myrtle Beach Development.**—The Myrtle Leaf for December, a monthly publication of the Myrtle Beach Investment Co., Myrtle Beach, S. C., presents industrial and social news of Myrtle Beach, which is being developed as a coastal resort city. The Myrtle Beach Investment Company is completing the \$1,200,000 Ocean-Forest Hotel.

**Moisture Grading Rules.**—A 12-page booklet detailing the principal reasons why lumber is seasoned and giving the moisture content recently adopted as a rule of its grade-marking practice has been issued by the Southern Pine Association. The booklet relates some of the history of lumber drying and tells of modern practices in both air and kiln drying and of their effectiveness in producing better and stronger lumber.

**Gas and Electric System.**—A booklet is being distributed by Harris, Forbes & Co., New York bankers, presenting a brief history and statistical information of the Associated Gas and Electric System, New York, operating through subsidiaries in 18 states, Canada and the Philippine Islands. One of its chief subsidiaries, the General Gas & Electric Corporation, New York, owns or controls public utility companies serving 44,000 consumers in South Carolina and Florida.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Morris Pump at Road Show.

The Morris Machine Works, Baldwinsville, N. Y., is to display a model sand and gravel dredge with a traveling screen on the suction, at the Road Show in Atlantic City, N. J., January 13 to January 17. The pump is of the Morris heavy duty lined type, with suction and discharge connections of approximately 1½-inch. In addition to this model, the company also manufactures standard and medium duty pumps for handling sand and gravel, slurry and sludge pumps for handling abrasive solids of small size, pumps for hydraulicking, washing, boiler feed, fire protection, contractors' pumping outfits and other products.

### Fred D. Holdsworth.

The death was recently announced of Fred D. Holdsworth, engineer from 1900 to 1928, the time of his retirement, in charge of compressor design at the Claremont (N. J.) plant of the Sullivan Machinery Company, Chicago. Mr. Holdsworth was awarded nearly 50 patents connected with the development of various Sullivan machines, among which are the angle compound air compressor, portable gasoline engine-driven air compressor and the electric motor-driven mine car compressor.

### Austin Ditcher and Backfiller.

Model 105 "Little Wonder" public service ditcher and a backfiller, two products of the Austin Machinery Corporation, Muskegon, Mich., incorporate many new features and are specially adapted for drainage ditch work on new types of highways now being planned where tile drain is used. The machines will be exhibited at the Road Show in Atlantic City, January 13-January 17.

### General Tire Sales Manager.

The General Tire & Rubber Company, Akron, Ohio, announces appointment of L. A. McQueen, Akron, as trade sales manager of the company. Mr. McQueen was formerly general manager of tire sales of the B. F. Goodrich Rubber Co., Akron.

### Nuckolls With Conkey Company.

Charles M. Nuckolls, lately connected with the International Harvester Company, Tractor Works, Chicago, is now with H. D. Conkey & Company, Mendota, Ill., manufacturers of Conco industrial products, including elevating and conveying machinery, having charge of design and development work in the crane department of the Conkey company.

### Southern Manager of Macoustic Company.

The Macoustic Engineering Company, Cleveland, Ohio, has appointed James A. Cassidy, formerly president of the Kneeling-Cassidy Brick Company, as Southern manager with offices in the new Rhodes Haverty Building, Atlanta. The Macoustic company operates plants in Cleveland and Montreal for manufacture of Macoustic sound-absorbing plaster.

### WARCO Machinery at Road Show.

Space 155 on the main floor of the Atlantic City Auditorium during the period of the Good Roads Show, January 13-17, will be occupied by the exhibit of W. A. Riddell Company, Bucyrus, Ohio, manufacturers of power graders and road machinery. Machines to be in the display will include the improved model E, the ER, model 10R Road Hog and model 15 Road Hog.



**Morse Chain at Road Show.**

Because of the interest manifested in the exhibit of the Morse Chain Company, Ithaca, N. Y., at the recent Power Show, the company will display practically the same booth at the Road Show in Atlantic City. The Morse Silent Chain Drive in all phases of its industrial application will be shown, also flexible coupling, single, double and triple reduction speed reducers and ring disc rollers.

**Enameling Plant for Steel Products.**

Contract was recently awarded by the Youngstown Pressed Steel Company, Warren, Ohio, to the Austin Company, Cleveland, Ohio, for building a brick addition to its plant for vitreous enameling of pressed steel products. An enameling plant will be furnished by the Procelain Enamel & Manufacturing Company, Baltimore, and electrical

equipment by the Mansfield (Ohio) branch of the Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Primarily the new addition will be used for the manufacture of enameled washing machine tubs, but will also be used to enamel bases, legs and other parts for washing machines and legs for stoves and ranges.

**Cleveland Tractor Sales Manager.**

The Cleveland Tractor Company, Cleveland, Ohio, has appointed P. P. Kearney, assistant sales manager, to have charge of the company's Southern interests, territory to include Kansas, Oklahoma, Texas, Arkansas, Louisiana, Mississippi, Tennessee and Alabama. Mr. Kearney's appointment is prompted by the splendid growth of the company's business in the South, according to C. D. Fleming, vice-president, and by the inviting outlook for further expansion.

**ARMCO Exhibit at Road Show.**

The Armco Culvert Manufacturers Association, Middletown, Ohio, will exhibit in space 103 at the coming Road Show in Atlantic City, with Anton S. Rosing, publicity manager in charge. Actual specimens of products, combined with explanatory films and charts, will show the result of research in drainage problems and requirements.

**Improvements on WARCO "E" Grader.**

The W. A. Riddell Company, Bucyrus, Ohio, manufacturers of one-man power graders, has announced 1930 improvements on the Warco model "E" grader. They include a new circle of special design consisting of a one-piece steel casting so constructed that the blade hanger is securely attached to it and the whole firmly mounted in the circle drawbar and the strengthening of parts subjected to unusual stress.

## RAILROAD FREIGHT TRAFFIC HEAVY

**Class 1 Railroads Carry 49,448,796 Cars in 11 Months—Best Record Since 1926**

Washington, D. C.—The American Railway Association reports that railroad freight traffic in the United States up to December 1, as represented by cumulative figures of the number of cars loaded with revenue freight on Class 1 railroads, is the greatest since 1926. For the current year to December 1, the association estimates the total rail freight loadings as 49,448,796 cars, while loadings for the same period in 1928 were 48,072,832 cars, and in 1927 the loadings reached a total of 48,379,016 cars. In 1926, however, the loadings up to December 1 reached a total of 49,659,647 cars, which is explained by the fact that the British coal strike in that year so largely increased the demand for coal on American markets that the movement of this commodity over the railroads experienced an abnormal stimulus. While it is agreed that for the final weeks of this year railroad traffic will show its customary decline in volume, it is estimated that the traffic has already been sufficiently heavy to insure record earnings for Class 1 railroads.

## Aerial Passengers Number 3, 527,000 in Year

Washington, D. C.—At least 3,527,003 passengers will have ridden in airplanes during the current year, according to Clarence M. Young, Assistant Secretary of Commerce for Aeronautics, who states that more than 8500 passengers fly daily. It is estimated that an average of 254 passengers are being carried daily on established airways, while an average of 8311 passengers are being transported daily in non-scheduled service, the latter consisting of miscellaneous operations, such as sight-seeing and air taxi ser-

vices. Where 90,909 miles of flying are scheduled daily over established routes, it is estimated that in the first half of the year 4,700,000 miles were flown by miscellaneous operators.

**Rayon Plant Addition**

Burlington, N. C.—Contract has been awarded by the A. M. Johnson Rayon Mills, Inc., to A. F. McNally, Framingham, Mass., for an additional building here, construction to begin at once.

**Bids on \$400,000 Courthouse**

Rockville, Md.—Plans for the Montgomery County Courthouse are expected to be ready January 15 for distribution to bidders. The structure will be 272 feet long, including end wings which will be 48 by 75 feet each, 5 stories, including a double top story for jail purposes. Various departments of the county government to be housed in the building, are the Clerk of the Court, Hall of Records, County Commissioners, Commissioners' Clerk, State Health Department and County Treasurer. The third floor will accommodate two circuit courts and accessory space, such as jury rooms, witness rooms, judges' chambers, State's Attorney's offices and Juvenile Court. The Orphans Court and Register of Wills will also be on this floor. A vapor heating plant and two large elevators will be installed. The exterior of the building will be of Indiana or Alabama limestone. The furniture and filing cases will be principally of steel. It is estimated that the structure will cost \$400,000, exclusive of equipment. The left or east wing will not be erected immediately, as the space is occupied by the present courthouse, which will be preserved until the new construction is completed, after which it is planned to remove the old building and erect the new wing. Rossel Edward Mitchell, Washington, D. C., and Chevy Chase, Md., is the architect.

## \$20,000,000 FOR WESTERN NORTH CAROLINA PROJECTS

**Resort Section Also Forging Ahead Industrially**

Asheville, N. C.—Western North Carolina, long noted as a resort region, is also forging ahead industrially, as emphasized by a \$20,000,000 business expansion program for 1930. This expansion will involve an increase in mining operations, state highway construction, public and building operations, expansion of industrial and agricultural enterprises and in varied new construction projects. Mining operations at Fontana in Swain County will involve the expenditure of \$2,500,000 by New York banking and mining interests in the development of copper ore deposits, and approximately \$1,000,000 will be expended for the extension of highways in the Asheville district. Manufacturing enterprises in the district will expend \$1,500,000 for expanding existing plants, a major project being a \$250,000 improvement program of the Champion Fibre Co., Canton. The expansion of agricultural enterprises will cost \$1,000,000 and \$2,000,000 will be expended for municipal and county improvements. More than \$3,500,000 will be expended in the Asheville area by public utility corporations during the next five years which is not included in the \$20,000,000 program. Building operations in Asheville, of a public and private nature, recently completed involved an estimated cost of \$12,577,000.

City Council of Lawton, Okla., called an election for January 6 on a bond issue of \$475,000 for improvements, including \$200,000 for waterworks, \$175,000 to improve Squaw Creek waterway, \$71,000 for fire stations and equipment and to improve the city hall, and \$29,000 to extend storm sewers.

## Factors to be Considered in Development of Sand and Gravel Projects

While the production of sand and gravel in this country has shown a tremendous increase in recent years and the construction program will naturally call for enormous quantities of these materials in the future, there are various economic factors in the development of new sand and gravel projects which should be given serious consideration by the operator if financial profit is to be assured, says the United States Bureau of Mines.

At the present rate our sand and gravel reserves are being depleted at the rate of more than 4000 acres per year, states the Bureau. This would be infinitesimal if all the area known to contain sand and gravel were composed of commercial deposits. Much of this area is known to be patchy, as small deposits of good material are mixed with larger deposits of low-grade material. Also, much of it is at too great a distance from consuming centers, but as new roads and railroads are built it will become accessible to markets of the future. Further the Bureau says:

"Sudden and rapid expansion has undoubtedly resulted in the creation of new projects in the sand and gravel business without adequate study of economic conditions. A survey of the situation made by the Bureau of Mines indicates that production over the whole country has not yet reached saturation. Curves for individual states, however, tell a different story and indicate that the local situation is rapidly approaching a condition of saturation, if not overproduction.

"Where a demand for a certain class of sand or gravel exists without adequate supply, perusal of state or national geologic reports may uncover a near-by source. Study of these reports may also uncover information pointing to certain characteristics of a deposit rendering it applicable to specialized market. The beds of streams, lakes and oceans form potential sources for sand and gravel and a large proportion of our production comes from such sources. A search along the banks of streams or lake and ocean beaches is entirely in order for preliminary survey. Dredging operations many times divulge workable deposits. In streams, sand and gravel deposits are most likely found on the inner side of bends and may often form the bank on that side.

"Probably the four largest markets for sand and gravel are for use as concrete aggregate, road material, railroad ballast, and building sand. A large percentage of the gravel produced is used as railroad ballast. The various roads differ considerably in their specifications for this material, some requiring a washed gravel and others accepting bank-run material containing considerable clay.

"Building sand is usually classified as material passing a 1/4-inch screen, but re-

cently engineers have become more critical, and the finer particles or dust must first be removed by a suitable washing process or some other method. The shape of the sand grains is sometimes specified, rounded or weathered grains being preferred to sharp-edged or angular material, and vice versa, although this applies more to special sands. Specifications for building sand at the present time almost universally require washed material.

"Demand for an adequate supply of sanitary water for domestic purposes in cities and rural communities has created a large market for certain classes of sands suitable for filter purposes. These sands should be of uniform grain size within certain limits so as to allow a maximum pore space for rapid filtration. They should also conform to certain chemical requirements, as certain mineral constituents possess better filtration properties than others.

"Brass and steel foundries require large amounts of molding sand which must satisfy another set of specifications both as to grain size and composition. Also, molding sands for iron and steel differ in certain respects from those used for brass.

"Other special sands, either because of special treatment of one kind or another, or because of their chemical composition, are peculiarly adapted to certain uses. Examples of these are glass sands used in the manufacture of window, plate, and bottle glass and engine sands used in large quantities by railroads and electric lines.

"Before he enters the business the prospective sand and gravel operator should investigate and assure himself with regard to all the following points:

"The deposit should be sufficiently large and uniform.

"The market should be able to absorb the proposed tonnage in addition to that which will be furnished by existing sources of supply.

"The deposit should yield material of a character that the market will accept or can be made to do so economically.

"Current prices and probable demands should be such as to indicate that the product can be sold for enough to cover not only operating but also overhead costs and in addition should yield a reasonable profit.

"Method of excavation chosen should be economically suited to local conditions.

"Enough capital should be available to cover initial investments in land and equipment and also to provide working capital during the early stages of operation."

Further information is given in Bureau of Mines Economic Paper 7, "Economics of New Sand and Gravel Developments," obtainable from the Superintendent of Documents, Government Printing Office, Washington, D. C., price 15 cents.

## Railroads Report Freight Handling Records

According to reports of the Bureau of Railway Economics, the heaviest traffic for any corresponding period on record was made by Class I railroads of the United States during the first ten months of 1929, when the volume of freight traffic handled amounted to 417,405,373,000 net ton miles. This is an increase over the corresponding period of last year of 5 per cent, the Southern district reporting an increase of 1.1 per cent, as compared with an increase of 7.3 per cent in the volume of freight traffic handled in the Eastern district.

Freight traffic during October, the latest figures available, amounted to 47,813,993,000 net ton miles, or a reduction of nine-tenths of one per cent under October, 1928, although it was an increase of 5 per cent above the October, 1927, freight traffic.

Another mark was set by the railroads of the country when during October they established a new high record in the speed with which freight traffic was handled. An average movement per car per day for October was reported at 36.3 miles, which the Bureau of Railway Economics states has never before been attained in any month.

Also, the average speed of freight trains during October was 13 miles per hour, the highest average for any October on record and an increase of four-tenths of a mile above that reported for October, 1928.

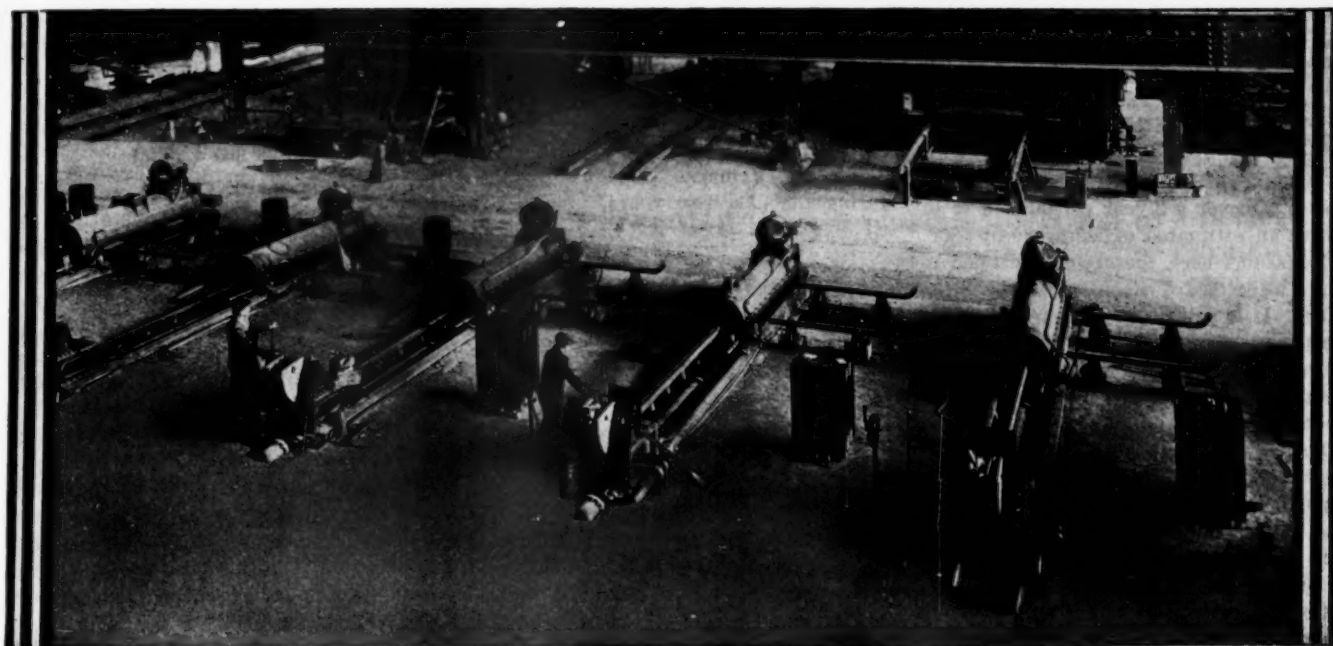
## Western Farmers Following South's Lead in Preventing Soil Erosion

Farmers of the Middle West and Northwest, following the lead of Southern farmers, are adopting soil erosion prevention measures as never before, says H. H. Bennett, erosion specialist of the Bureau of Chemistry and Soils, United States Department of Agriculture.

A Western farmer reported that he had, in his lifetime of 71 years, built four fences in the same place, one on top of the other, as the preceding fences were successively covered with eroded material washed out of the fields above.

For the first time erosion is being recognized as a serious threat to the productivity of the great wheat belt of eastern Oregon, Washington, and northern Idaho. In that region erosion is beginning at the tops of the ridges and working down the slopes. This year, with the maximum wheat yield at 60 bushels to the acre, many washed slopes, ridge crests, and points produced less than 8 bushels per acre.





## Centrifugal casting in these machines gives deLavaud pipe...

*100% greater tensile strength*

*65% greater transverse strength*

*25% greater bursting strength*

**I**N a series of strength tests on deLavaud Pipe, conducted by a disinterested testing laboratory, the results shown above represent the strength of deLavaud as compared with pit cast pipe.

While these percentages appear startling at first glance, a careful comparison of deLavaud metal with pit cast will help to convince you of their authenticity. For deLavaud Pipe metal will appear dense and extremely close-grained, while the structure of pit cast pipe metal will be coarse and crystalline.

deLavaud Pipe is made by pouring molten

metal into a revolving cylindrical mould. Centrifugal force holds the iron against the mould and drives out slag and gas bubbles with a force 40 times greater than gravity. Thus deLavaud metal is dense and fine in structure. And, it is remarkably free from weakening impurities.

In addition, the action of the water-cooled deLavaud mould and the subsequent annealing further improve the physical properties and the microstructure of the metal.

Let us send you all of the facts and figures on deLavaud Pipe; also the deLavaud Handbook which gives useful information about types of joints and dimension tables.



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## **\$300,000,000 FOR U. S. STEEL EXPANSION PROGRAM**

**Plans Big Improvements Over Three-Year Period—Southern Plant to be Enlarged**

An expansion and improvement program to cover a 3-year period and to involve an estimated expenditure of \$300,000,000 has been tentatively outlined by the United States Steel Corporation, New York. It is said to be the purpose of the corporation to greatly increase its productive capacity and, following an established policy, will pay for the improvements out of earnings and cash surplus. The present capacity of the corporation is in excess of 24,000,000 tons of steel ingots annually, or about 40 per cent of the 60,000,000 or more tons estimated as the capacity of all steel producers in the United States. Two of the United States Steel Corporation's subsidiaries scheduled for expansion include the Illinois Steel Company, Chicago, and the Tennessee Coal, Iron and Railroad Company, Birmingham.

## **L. & N. to Expend \$8,200,000**

Louisville, Ky.—In addition to \$5,000,000 recently authorized by the Louisville and Nashville Railroad Co. for equipment, the railroad has authorized \$3,200,000 for new rail, automatic signal extensions and for other improvements during the early part of 1930. The last authorization contemplates the purchase of 64,000 tons of 100-pound rail, while the \$5,000,000 authorization covers the purchase of six mountain-type locomotives, 23 passenger cars, dining cars, standard coaches, baggage and mail cars, and 1800 freight cars. Further expenditures are expected to be authorized in 1930.

## **Florida Making Tangible Progress**

B. G. Dahlberg of Chicago, head of the Celotex interests with plants in Louisiana and Florida, and chairman of the National Advisory Committee of the Florida State Chamber of Commerce, asserts that "Florida does not have to 'come back,' because during the past three years great tangible progress has been made in the state in spite of impressions to the contrary. The general tone of business in Florida shows decided improvement. The frame of mind of the business men has undergone a change for the better. There is more optimism and decision to carry-on, which argues well for the welfare of the state.

"Florida's big problem is that of taxation. To this can be added the need of proper marketing, adequate tariff and state-wide advertising of substantial nature," said Mr. Dahlberg. "Florida

can raise a billion dollars worth of food-stuffs if the proper marketing of its products can be accomplished." He pointed to the successful undertakings being carried out in the Everglades as one of the things which marks Florida's progress during the past few years.

## **\$2,500,000 UTILITIES EXPENDITURE**

**San Antonio Public Service Company Has Extensive 1930 Budget**

San Antonio, Tex.—According to tentative estimates announced by W. B. Tuttle, president of the San Antonio Public Service Company, his organization will expend approximately \$2,500,000 in San Antonio during 1930. The budget calls for an expenditure of \$500,000 for the gas department; \$1,500,000 for the electric department; \$300,000 for the traction department, and \$200,000 for extensions of electric service outside of the city. The largest single item contemplates an appropriation of \$900,000 for the installation of high pressure steam turbine and boilers at station B on Conception Road.

## **Predicts Increased Activity in Wrought Iron Industry**

Declaring that the next few months will witness a complete re-birth of the ancient wrought iron industry, Dr. James Ashton, head of the department of mining and metallurgy at Carnegie Institute of Technology and consulting metallurgist of the A. M. Byers Company, Pittsburgh, in a recent address before the American Society of Agricultural Engineers, predicted an early realignment of the ferrous metals trades.

Spurred by the demands for the special services which wrought iron renders wherever vibration and corrosion are factors, metallurgists long have sought some method for large scale production of this metal. This goal has been achieved, explained Dr. Ashton, after about 15 years experimental work by the Byers Company who own the new \$10,000,000 plant nearing completion at Ambridge, Pa., which is to mark the modernization of wrought iron manufacture.

## **Mail By Air From Argentina**

Planes of Pitcairn Aviation, Inc., New York, in October brought Argentina mail into New York from the Pan-American base at Miami, the first mail to arrive under the service extended to serve the South American nation. Approximately six days was cut from the steamship and rail transport time.

## **ORGANIZE COTTON SALES BODY**

**Central Marketing Organization to Have \$30,000,000 Capital**

Memphis, Tenn.—At a conference held here of 200 directors of cooperative cotton associations with members of the Farm Board, unanimous approval was given the proposal to form a central cooperative marketing agency with a capital stock of \$30,000,000, based on the framework of the American Cotton Growers' Exchange. One representative from each cotton association at the conference was appointed to the organization committee, which is to elect a chairman and appoint an attorney to draft articles of incorporation for the central association. This committee will also serve as the incorporating directors of the central organization and will select the Southern state in which incorporation will be made.

Authorized capital stock of the corporation will be 300,000 shares of common stock of \$100 par value, each share entitled to one vote. Subscriptions will be open to any regional, State or district cooperative cotton marketing association organized in compliance with the Capper-Volstead Act or which is otherwise found eligible by the board of directors. Four regional divisions will be formed for representation purposes, Southeastern, Mississippi Valley, Southwest and Far Southwest.

Members of the organization committee and incorporating board of directors of the newly created American Cotton Growers' Exchange are:

Allen Northington, Alabama Farm Bureau Cotton Association, Montgomery; Fred J. Elliott, Arizona Pima Cotton Growers, Phoenix; Charles G. Henry, Arkansas Cotton Growers' Co-operative Association, Little Rock; N. C. Williamson, Louisiana Farm Bureau Cotton Growers' Co-operative Association, New Orleans; R. E. Kennington, Mississippi Co-operative Cotton Association, Jackson; X. Cacerio, Missouri Cotton Growers' Co-operative Association, New Madrid, Mo.; U. B. Blalock, North Carolina Cotton Growers' Co-operative Association, Raleigh; S. L. Morley, Oklahoma Cotton Growers' Association, Oklahoma City; R. O. McCutcheon, South Carolina Cotton Growers' Co-operative Association, Columbia; Gowan Jones, Southwestern Irrigated Cotton Growers' Association, El Paso, Tex.; Tait Butler, Tennessee Cotton Growers' Association, Memphis; Harry Williams, Texas Farm Bureau Cotton Association, Dallas; Fay Sperry, Mesilla Valley Cotton Growers' Association, Las Cruces, N. M.; W. L. Elsen (unofficial observer), Pecos Valley Co-operative Association (director of extension of New Mexico), California Cotton Growers' Association, Delano, Cal., not represented at meeting. A. H. Stone (unofficial observer), Staple Growers' Co-operative Association, Greenwood, Miss.



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Mortar made of one part BRIXMENT, three parts sand, has both plasticity and strength. It becomes so hard that a nail cannot be driven into the joint; its ultimate strength exceeds that of the brick itself.

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# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Mobile—Water—City, S. H. Hendrix, Clk., receives bids Dec. 24 for \$100,000, 5%, \$1,000 denom. bonds.

Ala., Tarrant, Birmingham—City, Wallace Wells, Clk., receives bids Jan. 2 for bonds for \$51,000 paving.

Fla., Belle Glade—Water—City plans \$30,000 bond election.

Fla., Clearwater—Karl B. Quinn, Clk., Pinellas County Circuit Court, advises no election will be held Dec. 19 on \$75,000 bridge bonds.

Fla., Fort Lauderdale—Broward County Port Authority, C. C. Freeman, Chmn., receives bids Dec. 28 for \$275,000 6% \$1000 denom. bonds.

Fla., Live Oak—Refunding—City, C. H. Tedder, Mayor, votes Dec. 23 on \$31,000 bonds.

Fla., Miami—Refunding—City Comn., Welton A. Snow, Mgr., authorized issuance of \$730,000 bonds.

Ga., Haralson—Haralson School Dist. votes Dec. 27 on \$12,500, 6% bonds.

Ga., Macon—City, G. Glen Toole, Mayor, considering \$2,000,000 bond election: \$150,000, hospital; \$700,000, storm sewer; \$600,000, sanitary sewer; \$150,000, incinerator and equipment; \$300,000, paving; \$100,000, parks and playgrounds.

Kentucky—State Highway Comn., Frankfort, receives bids Jan. 6 for \$11,667,000 bonds, to build 12 and purchase 5 toll bridges.

La., Bastrop—Hospital—Town, C. J. Goodwin, Mayor, advises \$65,000 bond issue postponed indefinitely; lately noted bids Jan. 7.

La., Houma—City, Dreux Angers, Clk., receives bids Dec. 30 for \$193,000 Sewerage Dist. No. 1 bonds; lately noted bids Nov. 25.

La., New Orleans—City, T. W. Walmsley, Commr. of Finance, receives bids Dec. 21 for \$836,800 4½% certificates; \$730,000, paving; \$106,800, temporary road surfacing.

La., St. Martinville—Town receives bids Dec. 31 for \$20,000, 6%, \$200 denom. ad valorem tax bonds; \$18,000 6%, \$100 denom. water and electric light plant bonds.

Miss., Heidelberg—Jasper County Bd. of Supvrs., Bay Springs, receives bids Jan. 6 for \$50,000, 5½% Heidelberg Special Consolidated School Dist. bonds.

Miss., Hattiesburg—City, S. F. Tatum, Mayor, receives bids Jan. 9 for \$1,000,000 4½% bonds; \$750,000, water; \$250,000, sewer.

Miss., Holly Springs—Improvement—City, Mayor and Bd. of Aldermen, C. B. Smith, Clk., receives bids Jan. 6 for \$45,000, \$500 denom. not to exceed 6% bonds.

Miss., Macon—Bridge, Culvert—Noxubee County voted \$100,000 bonds; Bd. of Supvrs., V. V. Adams, Clk., receives bids Jan. 7 for \$100,000 \$1000 denom. not to exceed 6% bonds.

Mo., Jefferson City—School—City, Earl W. Jenkins, Mayor, considering \$307,000 bond issue.

Miss., West Point—Road—Clay County Bd. of Supvrs. probably call election first of year, on \$400,000 bonds.

Mo., Platte City—City votes soon on \$36,000 bonds for water distribution system.

Mo., Rolla—Phelps County, F. C. Kerr, Treas., receives bids Dec. 20 for \$60,000, 4½%, 4% or 5%, \$1,000 denom. funding bonds.

Mo., Springfield—Courthouse—Greene County votes Jan. 21 on \$125,000 bonds.

Mo., West Plains—Courthouse, Jail—Howell County votes Jan. 21 on \$125,000 bonds.

Mo., West Plains—Courthouse, Jail—Howell County, Anna Lasater, Clk., votes Jan. 21 on \$125,000 bonds.

N. C., Charlotte—Underpass—City, R. W. Rigby, City Mgr., considering \$75,000 to \$100,000 bond issue.

N. C., Hickory—City votes Jan. 31 on \$45,000 bonds toward purchasing Richard Baker Hospital.

N. C., High Point—School Board, C. F. Tomlinson, Chmn., will call election for Feb. 4 on \$850,000 bonds.

N. C., Old Fort—Water—Town, Bd. of Aldermen, receives bids Dec. 23 for \$10,000, \$500 denom. not to exceed 6% bonds.

N. C., Raeford—Highway—Hoke County

Commrs., D. K. Blue, Clk., receive bids Jan. 6 for \$25,000, 5½% bonds.

N. C., Waynesville—Haywood County Commrs., W. H. McCracken, Clk., receive bids Dec. 21 for \$11,000, 6% refunding school bonds; lately noted bids Nov. 25.

N. C., Wilson—Town, Theo. A. Hinnant, Clk., receives bids soon for \$300,000 power plant bonds.

Okla., Duke—Water—City, reported voted \$15,000 bonds.

Okla., Elk City—Gas System—City votes soon on \$190,000 bonds.

Okla., Marlow—Water Supply—City votes in 3 weeks on bonds.

Okla., Muskogee—City, A. F. McGarr, Mgr., plans selling \$161,000 bonds for municipal building.

Okla., Ponca City—City Council authorized issuing \$18,498 Street Improvement Dist. No. 78 bonds.

Okla., Tulsa—Tulsa County defeated \$500,000 bonds for proposed improvements at State Fair Grounds; John P. Kramer, Pres., County Fair Board.

Tennessee—Legislature passed bill authorizing State Funding Bd., Nashville, to issue \$10,000,000, not to exceed 6% bonds.

Tenn., Centerville—City, B. B. Stephenson, Recorder, plans issuing \$25,000 notes in place of road bonds.

Tenn., Clayton—City plans issuing \$50,000 \$500 denom. not to exceed 6% bonds; \$25,000, water; \$25,000, street.

Tenn., Cleveland—Bradley County plans issuing \$100,000, \$1000 denom., not to exceed 5½% indebtedness bonds.

Tenn., Dayton—School—Rhea County receives bids Dec. 20 for \$150,000 funding bonds; J. G. McKenzie, County Judge.

Tenn., Maryville—Blount County Quarterly Court plans issuing \$10,000, not to exceed 6% expense warrants.

Tex., Angleton—Sewer—City receives bids soon for \$32,000 bonds.

Tex., Brackettville—City votes Jan. 14 on refunding bonds for water works system.

Tex., Brownsville—Road—Cameron County, Oscar C. Dancy, County Judge, plans selling soon \$1,750,000 5% bonds.

Tex., Eden—Bd. of Education, T. B. Drinkard, plans election soon on bonds for \$60,000 school.

Tex., Edinburg—Irrigation—Hidalgo County Water Improvement Dist. No. 5 votes Dec. 28 on \$90,000 bonds.

Tex., Edinburg—Irrigation—Hidalgo County Water Control and Improvement Dist. No. 12 considering issuing and selling \$4,000,000 bonds.

Tex., Longview—Improvement—City, B. N. Taylor, Mgr., considering selling \$140,000 bonds, recently voted.

Tex., Marshall—City, P. M. Herndon, Sec., receives bids Jan. 15 for \$224,500, 5%, bonds for water, sewer and street; lately noted bids for \$225,000 bonds.

Tex., New Braunfels—Courthouse, Jail—Comal County votes Mar. 11 on \$80,000 bonds.

Tex., Rosebud—Paving—City considering \$30,000 bond election.

Tex., Sherman—City Comn., Jess E. Eubank, Mayor, plans \$125,000 bond issue, in April.

Tex., Tyler—City plans receiving bids early in 1930 for \$205,000 bonds: \$30,000, sub fire station; \$175,000, sewer improvement.

Tex., Whitesboro—Municipal Ice Plant—City votes Jan. 6 on \$15,000 bonds.

Va., Alexandria—City receives bids Dec. 20 for \$750,000 4½% bonds for annexation, public improvement, and funding purposes.

Va., Danville—Street—City Council considering \$80,000 bond issue.

W. Va., Charleston—London School Dist., Kanawha County, voted \$450,000 bonds; Bd. of Education, Dr. R. H. Dunn, Member, plans selling bonds.

W. Va., Parkersburg—Paving—City, Allen C. Murdoch, Mayor, may call election in Jan. on \$500,000 bonds.

W. Va., Romney—School Commrs., Wm. H. Poling, Sec., advises \$150,000 bond election postponed indefinitely; lately noted election Dec. 13.

## Bond Issues Sold

Ky., Covington—Water—City sold \$192,000 4½% bonds to Otis & Co., Toledo, at \$115 premium.

Md., Upper Marlboro—School—Prince George's County Bd. of Education, Nicholas Orem, County Supt., sold \$207,000, 4½%, \$1,000 denom. bonds to Stein Bros. & Boyce, Baltimore, at 104.39.

North Carolina—State, Nathan O'Berry, State Treas., sold \$1,900,000, 5% bond anticipation short term notes to 13 North Carolina Banks: Commercial National Bank, High Point; American Trust Co., Commercial National Bank, both Charlotte; Wayne National Bank, Goldsboro; Greensboro Bank & Trust Co., Greensboro; Wachovia Bank & Trust Co., Winston-Salem; Page Trust Co., Aberdeen; Bank of Chapel Hill, Chapel Hill; Cabarrus Savings Bank, Concord; Fidelity Bank, Durham; Commercial National Bank, Raleigh; Branch Trust Co., Wilson; Farmers National Bank & Trust Co., Winston-Salem.

N. C., Wilmington—New Hanover County Commrs. sold \$130,000 anticipation notes to W. O. Gay & Co., New York, at par and accrued interest.

South Carolina—Bond Bd. of Coastal Highway Commrs., Dr. Wade Stackhouse, Chmn., Dillon, sold \$300,000, 5%, \$1,000 denom. road bonds of Dillon, Florence, Williamsburg, Colleton, Beaufort and Saluda Counties, to Peoples Securities Co., Charleston, at \$300,570 and accrued interest.

South Carolina—Bd. of Capital Highway Commrs., B. W. Crouch, Chmn., Columbia, sold \$500,000 5% highway bonds of Richland, Lexington and Saluda Counties at 101.601 to group, comprising Guaranty Co., Hannahs, Ballin & Lee, both New York City, and Peoples Securities Co., Charleston, S. C.

S. C., West Greenville, Greenville—Sewer—Town, J. W. Hill, Clk.—Treas., sold \$45,000, 6% bonds to South Carolina National Bank, Greenville, at \$1,825 premium.

Tenn., Watertown—Electric Light Plant—City, J. W. Scott, Mayor, sold \$10,000 bonds to American National Bank, Nashville.

Tex., Brownsville—Road—Haywood County Hard Road Comn., Jas. Tipton, Chmn., sold \$100,000 bonds to J. C. Bradford & Co., Nashville, \$380 premium.

Tex., Brownwood—Brown County, reported, sold \$70,000 road bonds to First National Bank, Brownwood, at par.

Tex., Ennis—City sold \$10,000 6% water and sewer bonds to Citizens' National Bank of Ennis.

West Virginia—Road—State of West Virginia, Howard M. Gore, Governor, Charleston, sold \$900,000 4 and 4½% bonds at 100.12 to Otis & Co., Cleveland, and L. F. Rothschild & Co., Chicago.

## New Financial Corporations

Fla., Palm Beach—Palm Beach Trust Co., capital \$100,000, chartered; John S. Phipps, Pres., 1 Sutton Place, New York.

Md., Salisbury—Investment Trust Co., Colonial Bldg., chartered; Hooper S. Miles, Res. Agt.

Mo., Kirkwood—County Mortgage Investment Co., Inc., capital \$100,000, organized; Earle Deane, Pres.

Tex., Aransas Pass—Munsill & Co., Inc., Box 678, Port Aransas, capital \$35,000, organized; Gail Borden Munsill, Pres.; general investment.

Tex., Uvalde—Uvalde Livestock Loan Co., capital \$100,000, chartered; Dolph Briscoe, Pres., E. B. Seale, Sec.-Treas.

Bank of Commerce and Trusts, John T. Wilson, Pres., Richmond, Va., plans increasing capital to \$600,000.

City National Bank, J. A. Pondrom, Pres., American Exchange National Bank, Nathan Adams, Pres., both Dallas, Tex., will merge as First National Bank of Dallas, and open Jan. 2 in American Exchange National Bank quarters, Main St. and Exchange Place.

City Savings Bank, Edward E. Hutsel, Pres., and First National Bank, Alex. Armstrong, Pres., both Hagerstown, Md., merged.

Farmers State Bank, J. T. Courts, Pres., Quinton, Okla., acquired assets of Kinta

(Continued on page 100)



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## FINANCIAL NEWS

(Continued from page 98)

State Bank, J. W. Rabon, Pres., Kinta, Okla.

Farmersville National Bank, W. R. Carver, Pres., and First National Bank, J. E. Pendleton, Pres., both Farmersville, Tex., consolidated as First National Bank in Farmersville; J. E. Pendleton, Pres., C. H. Beam, Cashier.

First National Bank, S. B. Cowell, Pres., City National Bank, C. D. Anderson, Pres., and Security State Bank, James A. Godwin, Pres., all Whitesboro, Tex., merged into

Whitesboro National Bank, with \$50,000 capital; Merchants and Planters National Bank of Sherman, Tex., acquires controlling interest.

First State Bank & Trust Co., Bryan, Tex., opened with R. H. Seale, Pres.; C. E. Jones, Cashier.

First State Bank & Trust Co., Ernest Taylor, Pres., Snyder, Tex., acquired First State Bank C. J. Lewis, Pres., Hermleigh, Tex.; total resources \$1,000,000.

Greenville Banking Co., R. J. Atkinson, Pres., and People's Bank, H. W. Hill, Jr., Pres., both Greenville, Ga., plan merging as

Greenville Banking Co.; merger includes Bank of Gray, branch of Greenville Bank.

Mercantile Finance Corp. of Alabama, Inc., George McCleery, Pres., 314 N. Twenty-first St., Birmingham, Ala., increased capital, \$324,000 to \$439,000.

St. Luke Bank & Trust Co., Maggie L. Walker, Pres., and Second Street Savings Bank, J. J. Taylor, Pres., both Richmond, Va., plan merging as Consolidated Bank & Trust Co., St. Luke's Bank Bldg., First and Marshall St., with \$75,000 capital, and \$50,000 surplus; Maggie L. Walker, Chmn. of Bd.; John J. Taylor, Asst. Chmn.

### Business Outlook Bright in Southeast

That the Southeast will be the "bright spot" of the nation during the coming year is the prediction of Ivan Allen, president of the Ivan Allen-Marshall Company, of Atlanta, Ga.

"I have every confidence," says Mr. Allen, "that Southern business and industry will continue to make good progress. I base this statement first on the fact that the rank and file of the Southern people were not engaged in playing the market. This means that their losses were less than in any other section, and their recovery will be correspondingly more rapid.

"But there is another and more fundamental reason for my confidence in Southern business. It is that the trend for decentralization in industry has given the Southeast the assets of national industry without its liabilities.

"Not only does this apply to capital invested, but to employees. The class of people which the firms are bringing into the South with them is of the highest. It consists of executives, of skilled labor, of trained salesmen, all of whom are an addition to the community. Then, too,

the trend means greater employment for Southern labor.

"Never before has the South been so sure of reaping the advantages which natural resources of men and material, as well as the modern trend towards decentralization, are bringing to her. The man in the South will be the favored one—and Southern business should prosper in 1930."

### \$1,000,000 Masonic Temple Bids

Arrangements have been made by the Scottish Rite Holding Co., Baltimore, J. Edw. Richardson, president, with the Price Construction Co., Baltimore, to take sub-bids until December 21, for erecting the \$1,000,000 Scottish Rite temple at Charles Street avenue and 39th street. Clyde N. and Nelson Friz are the architects; C. L. Reeder, mechanical engineer, and C. H. Osborne, structural engineer, all of Baltimore.

Bids will be opened January 15 by Marshall, Tex., C. M. Herndon, city secretary, for the purchase of \$224,500 5 per cent bonds.

### To Expend \$1,200,000 in 1930

Hagerstown, Md. — Capital expenditures to be made during 1930 by the Potomac Edison Company and subsidiaries will be in excess of \$1,200,000, it is estimated, the outlay to cover improvements and additions to generating stations, transmission and distribution lines, improvements in electric railway and motor bus line operations.

### Textile Mill Projected

Forest City, N. C.—Construction is expected to be started soon on a new textile mill here for the Ellenboro (N. C.) Manufacturing Co., J. M. Lumley, superintendent. Approximately \$75,000 of the capital stock of the company has been subscribed and plans for construction are under way, according to Mr. Lumley, who is handling engineering details. The plant will use cotton, rayon and silk for the production of tapestries, bedspreads, damask, upholstering and other novelties. Tenant houses will be erected and about 100 operatives employed.

### YOUNG & SELDEN COMPANY

MANUFACTURING

Bank and Commercial Stationers

BALTIMORE, MD.

Delaware Corporations

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Chas. Warner Smith, Vice-President.

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OFFICES:

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Suite 403 FIRST NAT'L BANK BLDG. - HAGERSTOWN, MD.

### THE OSCAR T. SMITH & SON CO.

Manufacturing

BANK AND COMMERCIAL STATIONERS

407-9-11 E. Saratoga Street

BALTIMORE, MD.

CHARACTER

QUALITY

SERVICE

THE growth and development of the South and Southwest demands extensive financing and banking facilities. If you are interested in enlarging your contacts in this section, may we discuss our advertising service with you?

MANUFACTURERS RECORD



**WE** extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

### Electric Bond and Share Company

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W. O. GAY      H. D. MONTGOMERY      G. C. DEMOREST  
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### SOUTHERN TEXTILE SECURITIES

**A. M. LAW & COMPANY**  
Established 1892  
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MUNICIPAL AND CORPORATION BONDS  
Established 1894  
ATLANTA, GA.

*We Underwrite MUNICIPAL BONDS in States of  
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Municipalities  
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*Financed*

**MARX & CO.**

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ALABAMA

### We Buy Bonds

City, County, School and Road from  
Municipalities and Contractors  
WRITE

**THE PROVIDENT SAVINGS BANK & TRUST CO.**  
CINCINNATI      OHIO

WE PURCHASE ISSUES OF SPECIAL ASSESSMENT BONDS  
AND ADVANCE FUNDS TO RESPONSIBLE CONTRACTORS  
ACCOUNT CONSTRUCTION COSTS SUCH ISSUES  
CORRESPONDENCE WITH US INVITED  
**S. G. GARRAWAY & COMPANY**  
208 SO. LA SALLE ST. - CHICAGO, ILLINOIS

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### COOPERATION and CONSERVATISM

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Capital and Surplus \$1,350,000.00

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#### Mergers and Reorganizations Effected

With connections seeking extensive outlets in constructive financing in the South, this announcement of facilities now available to Southern business houses embraces a most cordial invitation to investigate the solutions offered in response to capital needs. Capital furnished for both new and old enterprises.

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Text of law, fully annotated, with Forms for organizing Delaware Corporations

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Tel. Wilmington 8308

Wilmington, Delaware

### \$5,000,000 EXPENDITURE FOR 1930

#### Dallas Power and Light Company Has Big Construction Program

Dallas, Tex.—An expenditure of approximately \$5,000,000 to carry out a big construction program during 1930 has been planned by the Dallas Power and Light Company, according to W. H. Head, chairman of the board of directors. The biggest single item in the program is a \$2,000,000 office building of 18 stories, to be erected at Jackson and Browder streets, Dallas, while the remaining \$3,000,000 will take care of the natural growth of the business. New power contracts will necessitate the extension of the underground system, one of these jobs involving the Bachman pumping plant for the city water system. Industrial development will require other underground line extensions, all in Dallas and outlying territory. A new generating unit of 30,000-kilowatt capacity is being completed at the Dallas plant, this unit marking the last item in the \$3,000,000 improvement program for 1929.

### WEST VIRGINIA HOLDS COMMERCIAL FORESTRY CONFERENCE

#### Perfects Permanent Organization to Carry on Work

West Virginia boasts some of the finest hardwood in the country. The state still has a higher percentage of virgin forests than any of the other eastern states. An effort is now on foot to expand the area along the Alleghenies included in the Monongahela National Forest purchase unit and to expedite the purchase by the Federal Government of the lands included.

The West Virginia Commercial Forestry Conference, under auspices of the West Virginia General Forestry Committee, and with assistance of the Chamber of Commerce of the United States, held its first meeting, December 4-5, at Charleston. The National Lumber Manufacturers Association was represented by Franklin W. Reed, who declared that West Virginia needed a permanent and active State Forest Protective Association, giving examples of the success of such undertakings in other states.

The response of those who took part in the conference indicated a conviction that West Virginia forestry is chiefly dependent on the initiative of individual enterprise in practicing proper forestry, with the cooperation of the general public, the state and federal governments.

Resolutions adopted were to the effect that:

1. The State of West Virginia should

be properly surveyed to determine the best utilization of its land area.

2. Forest research should be advanced by all possible agencies.

3. Forest fire protection should be extended and intensified throughout the state.

4. More wood-using industries should be introduced to manufacture finished products from West Virginia rough-lumber which is now exported.

5. A more favorable form of forest taxation is essential to profitable forest production.

6. The public must give wider recognition to forest problems and means of solving them.

7. More state forests are needed for demonstration purposes.

8. A permanent organization should be formed to maintain the spirit of the conference just held.

9. The federal government should extend its acquisition of sub-marginal lands in West Virginia.

A permanent organization was inaugurated, the West Virginia Forestry Association, to carry forward consideration of forestry problems in future. The first president is John Raine of the Meadow River Lumber Co., Rainelle, W. Va.

Among those taking part in the conference were:

John W. Smith, Commissioner of Agriculture, Charleston.

Dr. L. C. Gray, Chief Division of Land Economics, U. S. Department of Agriculture.

D. C. Boy, Industrial Agent, C. & O. Railway, Huntington.

J. K. Buchanan, Vice-President, Monongahela West Penn Public Service Co., Fairmont.

J. W. Woodell, Waldo Hotel, Clarksburg.

Capt. Henry M. Leps, Kanawha Manufacturing Co., Charleston.

Rolland C. Mossman, Secretary, W. Va. Retail Lumber Supply Dealers Association, Huntington.

F. H. Johnson, Cherry River Paper Company, Richwood.

Franklin W. Reed, National Lumber Manufacturers Association, Washington.

Col. W. M. Wiley, Sharples.

Governor Wm. G. Conley, State of West Virginia.

Wm. Butterworth, President, Chamber of Commerce of the United States.

W. A. Carnegie, Forester, Clearfield Bituminous Coal Corp., Indiana, Penn.

W. N. Sparhawk, Forest Economist, U. S. Forest Service, Washington.

David G. White, Appalachian Hardwood Club, Cincinnati.

Axel H. Oxholm, Director Wood Utilization, Department of Commerce, Washington.

Newton Thomas, Vice-President, Carbon Fuel Co., Carbon.

A. B. McCrum, Secretary, W. Va., Public Utilities Association.

D. A. Burt, Wheeling Steel Corporation, Wheeling.

### \$1,750,000 Bonds Offered

Brownsville, Tex.—Cameron County will soon offer a 5 per cent bond issue of \$1,750,000 for constructing roads, according to County Judge Oscar C. Dancy.

### \$11,000,000 BUDGET FOR 1930

#### Appalachian Electric Power Company Plans Extensive Improvements

Roanoke, Va.—The construction program for the Appalachian Electric Power Company system, operating in Virginia and West Virginia, and through subsidiaries in Eastern Kentucky and Eastern Tennessee, is estimated to involve an expenditure of \$11,000,000 in 1930. Proposed expenditures contemplate an outlay of \$3,815,000 for steam generating equipment; \$1,600,000 for transmission lines; \$2,750,000 for substations and substation equipment; \$2,380,000 for distribution lines, meters, transformers and services for new customers, and \$455,000 for miscellaneous improvements, including office and service buildings, garages, etc. Contingent upon governmental approval work will begin on the company's \$17,000,000 hydro-electric development program.

### Industrial Growth Along Frisco Lines

An item of significant interest was mentioned in a recent statement by J. M. Kurn, president of the St. Louis-San Francisco Railroad Company, when he announced that prospects in the nine-state territory served by his railroad were very bright for 1930. He stated that bank clearances generally through the Frisco territory were in excess of those a year ago and that the business men were of the opinion that prosperous conditions would prevail.

The item of especial interest, however, was that 420 new industries were located on the Frisco lines during the first 11 months of 1929, an increase of 90 over the same period of 1928. Mr. Kurn referred to the fact that as this industrial expansion showed no signs of diminishing it further strengthens his belief that the industrial program for 1930 will exceed that of 1929.

### \$590,000 for Army Buildings

Fort Benning, Ga.—Plans are expected to be ready January 15 for distribution to bidders for officers' quarters here, according to Lieut. William M. Allison, Constructing Quartermaster. Construction, estimated to cost \$590,000, will include four quarters for field officers, 22 for company officers and 18 for non-commissioned officers. The buildings will be of concrete, brick and tile.

Bids will be opened January 13 in the office of the Constructing Quartermaster, Camp McCellan, Ala., for building 18 officers' quarters, for which an appropriation of \$225,000 is available.





# PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close January 2, 1930.

**TREASURY DEPARTMENT**, office of the Supervising Architect, Washington, D. C., December 4, 1929.—**SEALED BIDS** will be opened in this office at 3 P. M. January 2, 1930, for remodeling and enlarging the U. S. Postoffice at Bridgeton, N. J. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 6, 1930.

**TREASURY DEPARTMENT**, office of the Supervising Architect, Washington, D. C., December 10, 1929.—**SEALED PROPOSALS** will be opened in this office at 3 P. M. January 6, 1930, for furnishing all labor and material necessary for the installation of a complete elevator plant in the U. S. Postoffice at Baltimore, Md. All prospective bidders are hereby notified that any bid submitted in response to this advertisement must be accompanied by a statement of facts in detail of the business and technical organization of the bidder available for the contemplated work, including financial resources and building experience, etc. The United States expressly reserves the right to reject any bid in which the facts as to business and technical organization, financial resources or building experience, compared with the project bid upon, justify such rejection. The successful bidder will be required to furnish a performance bond of 50% of the contract price. Drawings and specifications may be obtained from this office. JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 14, 1930.

**SEALED BIDS**, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 704, Arlington Building, Washington, D. C., until 11 A. M. January 14, 1930, and then publicly opened for furnishing all labor and materials and performing all work required for U. S. VETERANS' HOSPITAL, LEXINGTON, KENTUCKY, for CONSTRUCTION OF BUILDINGS AND UTILITIES, including roads, walks, and drainage. This work will include excavating, reinforced concrete construction, hollow tile, brickwork, limestone, architectural terra cotta, marble work, floor and wall tile, rubber tile and linoleum floors, iron work, steel flag pole, steel sash, steel stairs with slate treads, metal stall partitions, slate, metal and built-up roofing, roof ventilators, skylights, metal lathing, plastering, sound deadening, carpentry, dumb waiter, platform scales, metal weatherstrips, insect screens, window shades, painting, glazing, hardware, plumbing, heating, boiler plant, incinerator, radial brick chimney, electrical work, electric elevators, refrigerating and ice making plant, steel water tank and outside sewer, water, gas, steam and electric distribution systems. **SEPARATE BIDS** will be received for (a) General Construction (including the plumbing, heating and electrical work and oil burning equipment); (b) Electric Elevators; (c) Refrigerating and Ice Making Plant; (d) Steel Water Tank and Tower; and (e) Radial Brick Chimney, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract and in making awards, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 704, Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$80.00 payable to the **TREASURER OF THE UNITED STATES** is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director. December 10, 1929.

## GENERAL INFORMATION

### About Proposal Advertising in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

### THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day, gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close December 21, 1929.

U. S. Engineer Office, Wilmington, N. C. Sealed bids, in duplicate, will be received until 12 o'clock noon, December 21, 1929, and then publicly opened, for furnishing all labor and materials and performing all work for dredging approximately 2,976,000 cubic yards in Section IV of the Intracoastal Waterway from Beaufort to Cape Fear River, N. C.

Bids close January 15, 1930.

U. S. ENGINEER OFFICE, Poland and Dauphine Sts., New Orleans, La. **SEALED BIDS**, in duplicate, will be received until 3 P. M. January 15, 1930, and then publicly opened, for furnishing all labor and materials and performing all work for constructing and delivering afloat one 65-ft. 6-in. steel Diesel driven tugboat. Further information furnished on application.

Bids close January 8, 1930.

**TREASURY DEPARTMENT**, office of the Supervising Architect, Washington, D. C., November 30, 1929.—**SEALED BIDS** will be opened in this office at 3 P. M., January 8, 1930, for the construction of the U. S. post office at McMinnville, Tenn. Drawings and specifications, not exceeding six sets, may be obtained at this office in the discretion of the Supervising Architect by any satisfactory general contractor, and provided a deposit is made of \$15.00 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 6, 1930.

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., November 23, 1929.—**SEALED BIDS** will be opened in this office at 3 p. m., January 6, 1930, for the demolition of old and the construction (except elevators) of new six story, basement and sub-basement stone faced, fireproof, U. S. post office building, approximately 233 feet by 278 feet ground area, at Baltimore, Md. Drawings and specifications, not exceeding six sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit is made of \$50 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close December 30, 1929.

\$150,000

### School Bonds

Dayton, Tenn.

Sealed bids will be received by J. G. McKenzie, County Judge, of Rhea County, Dayton, Tenn., until Monday, December 30, 1929, for the sale of One Hundred Fifty Thousand Dollars (\$150,000) School Bonds to fund indebtedness.

Parties interested address  
J. G. MCKENZIE,  
County Judge.

Bids close January 21, 1930.

### Notice To Contractors

#### POSTPONEMENT DATE RECEIVE BIDS

Baton Rouge, La.

Notice is hereby given by the Louisiana Highway Commission, Louisiana National Bank Building, Baton Rouge, Louisiana, that the date for receiving bids for construction of the projects listed below has been postponed from 11 A. M. December 10, 1929, to 11 A. M. Tuesday, January 21, 1930.

**STATE PROJECT 1151, OBERLIN-KINDER HIGHWAY**, Allen Parish, Route No. 24. Length 7.0 miles. Concrete Pavement.

**STATE PROJECT 1451, MARKSVILLE-MANSURA HIGHWAY**, Avoyelles Parish. Length 6.0 miles. Concrete Pavement.

HARRY B. HENDERLITE,  
State Highway Engineer.  
O. K. ALLEN, Chairman,  
Louisiana Highway Commission.

Bids close December 23, 1929.

### Bridges

#### DEPARTMENT OF PUBLIC WORKS STATE OF MARYLAND STATE ROADS COMMISSION

#### NOTICE TO CONTRACTORS

Baltimore, Md.

**SEALED PROPOSALS** for building Bridges as follows:

Kent County. Contract K-37-A. Double leaf bascule span (60 ft. 0 in. clear channel) for the bridge over the Chester River at Maple Avenue in Chestertown. The bascule piers are being built under a separate contract.

Anne Arundel County. Contract AA-70. Single span steel girder bridge on concrete piers (45 ft. 4 in. span) under the tracks of the Chesapeake Beach Railroad on the road from Hill's Bridge to Sunderland at Fisher Station, will be received by the State Roads Commission, at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 23rd day of December, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 6th day of December, 1929.

G. CLINTON UHL, Chairman.  
L. H. STEUART, Secretary.

Bids close January 8, 1930.

**Waterworks Improvements**

Greenville, Ala.

Sealed bids will be received by the Town of Greenville, Ala., at the office of Town Clerk until 2 P. M. January 8th, 1930, and at that time publicly opened, for the construction of improvements to water plant and extensions to distribution system, the same being located in and adjacent to Greenville, Butler County, Ala. The principal items of work are approximately as follows:

1 Gas Driven Generator Unit complete; 1 750 gpm Pump and Motor; 1 Deep Well complete with pump and motor; 1 Transformer station; 1 Pressure Pump House; 1 Deep Well Pump House; 385 Cu. Yds. Class A Watertight Concrete; 1 Layout Misch. Piping at Water Plant; 4500 Lin. Ft. 6-in. Class B. H. & S. C. I. Pipe.

Plans and specifications are on file in the office of the Town Clerk, Greenville, and in the office of the Consulting Engineers, Birmingham, Alabama. Specifications and proposal blanks can be secured, on deposit of \$5.00, from the undersigned or from the Consulting Engineers. Copy of the plans will be mailed by the Consulting Engineers on receipt of payment (not deposit) of \$5.00.

The right to reject any or all bids is reserved.

Cash or certified check or proposal bond for Five Thousand Dollars, made payable to the Town of Greenville, must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

C. E. HAMILTON, JR., Mayor.

ROBERT L. TOTEN, INC.,  
Consulting Engineers,  
Birmingham, Ala.

Bids close January 14, 1930.

**Locks in New Basin and Bayou St. John**

BOARD OF LEVEE COMMISSIONERS,  
ORLEANS LEVEE DISTRICT,  
NO. 201 NEW COURT BUILDING,  
NEW ORLEANS, LOUISIANA.

New Orleans, La., November 13th, 1929.

Sealed proposals will be received at the office of the Board of Levee Commissioners of the Orleans Levee District, New Orleans, Louisiana, up to 8 P. M. JANUARY 14th, 1930, and then publicly opened for furnishing all labor, material and equipment necessary for the construction of Locks in New Basin Canal South of Robert E. Lee Boulevard and in Bayou St. John, South of Hibernia Avenue.

A deposit of \$10,000.00 (Ten Thousand Dollars) in cash or certified check will be required with each proposal. No bid bond will be accepted. A surety bond to the amount of 50% of the cost of the contract will be required with notarial contract.

Plans and specifications are on file in the office of the Board of Levee Commissioners of the Orleans Levee District, Suite No. 201 New Court Building, or No. 606 Common Street, New Orleans, Louisiana and will be furnished to prospective bidders upon application.

The right is reserved to reject any or all bids and to waive informalities.

Plans and specifications will be furnished to prospective bidders upon payment of \$25.00 (Twenty-five Dollars) cash or certified check, which will not be refunded.

For further information, address W. B. Davey, Acting Chief Engineer.

A. L. SHUSHAN,  
President.

CHAS. J. DONNER,  
Secretary.

Bids close January 7, 1930.

**Concrete Sea Wall**

BOARD OF LEVEE COMMISSIONERS,  
ORLEANS LEVEE DISTRICT,  
NO. 201 NEW COURT BUILDING,  
NEW ORLEANS, LOUISIANA.

New Orleans, La., Dec. 6th, 1929.

Sealed proposals will be received at the office of the Board of Levee Commissioners of the Orleans Levee District, at New Orleans, Louisiana, TUESDAY, Jan. 7th, 1930, at 8.00 O'clock P. M., and then publicly opened for furnishing all labor, material and equipment necessary for the construction of a concrete sea wall on the shore of Lake Pontchartrain, from West End to the Industrial Canal.

A deposit of \$50,000.00 (Fifty Thousand Dollars) in cash, or certified check will be required with each proposal. No bid bond will be accepted. A surety bond to the amount of 50% of the cost of the contract will be required with notarial contract.

Plans and specifications are on file in the office of the Board of Levee Commissioners of the Orleans Levee District either Suite No. 201 New Court Building, or 606 Common St., New Orleans, Louisiana and will be furnished to prospective bidders upon application.

The right is reserved to reject any or all bids and to waive informalities.

Plans and specifications will be furnished to prospective bidders upon payment of \$100.00 (One Hundred Dollars) which will not be refunded.

No alternate plans, or propositions, other than the one requested by this advertisement will be considered.

For further information, address W. B. Davey, Acting Chief Engineer, or E. C. Hyatt, Engineer in charge of the work.

A. L. SHUSHAN,  
President.

CHAS. J. DONNER,  
Secretary.

## CLASSIFIED OPPORTUNITIES

**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

FOR SALE, or capitalize. Talc, pure white, eight feet vein. Kaolin, Mica, Marble, Iron, Gold. W. A. Owenby, Mineral Bluff, Ga.

FOR SALE—15,000 acres mountain land; fine prospect for oil and gas; wells being drilled now nearby; good seam of coal. Address No. 8038, care Manufacturers Record.

EXCHANGE 225 acres timber for hotel or small farm; 225 acres unencumbered timber and mineral land two miles from R. R. station, on State highway in West Virginia, for unencumbered hotel or small farm. OWNER, CENTRAL HOTEL, Point Pleasant, Penna.

**MINERAL LANDS WANTED**

WANTED—To hear from parties having mineral properties for sale. Also any large tracts of land. UNITED MINERALS CO., Roanoke, Va.

**CONCRETE AND GLASS SAND**

FOR SALE—Extensive deposits of Concrete and Glass Sand. Owner can operate pits or sell sand on royalty basis. Pits now in profitable operation. Large paving contracts will be let soon in this territory. Address J. D. Vaughan, owner, Lumber City, Ga.

**GRANITE QUARRY**

SOUTH CAROLINA EXTENSIVE ROAD PROGRAM involving expenditure of about \$100,000,000 in next five years, will exhaust present capacity of quarries making crushed stone in the state. If interested in securing quarry of high grade granite, at 10 cents per ton, convenient to railroad, with water and electric power available, write for details to EUNITA MANNING RUFF, care U.S. Post Office, Columbia, S.C.

**Rates, Terms and Conditions**

**RATES:** 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

**Rates for Special Contracts**

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**TERMS:** For transient advertising cash with order; check, postoffice or express money order or stamps accepted.

On special contract advertising bills are rendered monthly, covering space used each month, payable within ten days.

**CONDITIONS:** No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES****TIMBER AND TIMBER LAND**

FOR SALE—4 million ft. virgin hardwood timber, 2 miles from B. & O., near Piedmont, W. Va. Easily logged—reasonable price—easy terms. Box 355, Mt. Lake Park, Md.

**FARM, FRUIT AND TRUCK LANDS****ALABAMA**

FOR SALE—120 acre Alabama Mountain Farm, about 15 miles from Anniston, Alabama. Price \$750.00. Write W. D. SMYTH, Box 538, Gaffney, S. C.

**FARM, FRUIT AND TRUCK LANDS****FLORIDA**

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